ILLUSTRATED PARTS BREAKDOWN

HP 3000

COMPUTER SYSTEM

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 $\star Indicates$ parts lists which are not available for this printing.

1-1. INTRODUCTION.

This HP 3000 Computer System Illustrated Parts Breakdown (IPB) Manual, part no. 03000-90021, is one in a set of manuals that document the Hewlett-Packard 3000 Computer System. This manual contains replaceable parts ordering information, replaceable parts lists, exploded views, and part location diagrams.

SCOPE. 1-3.

- This manual is intended for use by maintenance 1-4. personnel who are familiar with the maintenance procedures of the HP 3000.
- Section II of this manual describes the replaceable major assemblies, subassemblies, and detailed parts for the HP 3000 Computer System. Exploded or parts location views are located adjacent to the corresponding replaceable parts lists. Where disassembly is significant, replaceable parts are listed and indexed in the order of disassembly.

REPLACEABLE PARTS



2-1. INTRODUCTION.

2-2. This section contains information that enables the user to interpret the replaceable parts lists in this section, and information to order replaceable parts.

2-3. REPLACEABLE PARTS LISTS.

2-4. Replaceable parts lists in this section are in two formats; lists by order of index number and lists by order of reference designation.

2-5. INDEX NUMBERED LISTS.

- 2-6. The index numbered lists are used in conjunction with the exploded and parts identification views of assemblies and subassemblies. The replaceable parts are referenced to the views by index numbers which are in the order of disassembly except for attaching parts which are indexed immediately after the parts they attach.
- 2-7. Items in the DESCRIPTION column of the replaceable parts lists are indented to indicate item relationship. In addition, the symbol " $-- \times --$ " follows the last of one or more attaching parts. Indention is as follows:

MAJOR ASSEMBLY

- *Subassembly
- *Attaching Parts for Subassembly
- **Subassembly Parts
- **Attaching Parts for Subassembly Parts
- 2-8. The columns in the index numbered lists provide the following information for each part:
- FIG. & INDEX NO. The figure and index number where the replaceable parts are shown in an exploded view.
- HP PART NO. The HP part number for each replaceable part.
- Note: When "Coml" appears in the HP PART NO. column for a particular part, that part should be available from normal commercial sources.
- c. DESCRIPTION. The description of each replaceable part and its applicable reference designation. Also lists special applications (accessories and options) of the replaceable part. Refer to the Reference Designations and Abbreviation table at the back of this manual for an explanation of abbreviations used in the DESCRIP-TION column.

- d. MFR CODE. A five digit code that denotes a typical manufacturer of the part. Refer to the Code List of Manufacturers table at the back of this manual for a list of manufacturers.
- e. MFR PART NO. The manufacturer's part number for each replaceable part.
- f. UNITS PER ASSY. The total quantity of each part used in the assembly or subassembly to which it belongs.
- 2-9. REFERENCE DESIGNATION ORDER LISTS.
- 2-10. The lists which are in reference designation order are used in conjunction with the parts location diagrams for the printed-circuit assemblies (PCA). The replaceable parts are referenced to the parts location diagrams by reference designations which correspond to the PCA logic diagrams located in the *Detailed Logic Diagrams Manual*, part no. 03000-90023.
- 2-11. The columns in the reference designation order lists provide the following information for each part:
- REFERENCE DESIGNATION. The assembly designation and complete reference designation for each replaceable part.
- b. HP PART NUMBER. The HP part number for each replaceable part.
- c. QTY. The total quantity of a part used on the PCA is listed with the first entry for that part number.
- d. DESCRIPTION. The description of each replaceable part. Refer to the Reference Designations and Abbreviations table at the back of this manual for an explanation of abbreviations used in the DESCRIPTION column.
- e. MFR CODE. A five digit code that denotes a typical manufacturer of a part. Refer to the Code List of Manufacturers table at the back of this manual for a list of manufacturers.
- MFR PART NUMBER. The manufacturer's part number for each replaceable part.

2-12. ORDERING INFORMATION.

2-13. To order replacement parts, address order or inquiry to the local Hewlett-Packard Field Office. (Refer to list at the end of this manual for addresses.) Specify the following information for each part ordered:

- a. Model and serial number.
- b. Hewlett-Packard part number for each part.
- c. Description of each part.
- d. Circuit reference designation (if applicable).

Table 2-1. HP 3000 Computer System

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
INDEX	30001A 30002A No Number 30310A 30350A* 30352A* 30390A	CENTRAL PROCESSOR UNIT (see figure 2-1) UNIVERSAL PCA MODULE (see figure 2-14) FAN ASSEMBLY (see figure 2-43) POWER SUPPLY ASSEMBLY (see figure 2-44) AUXILIARY CONTROL PANEL (see figure 2-58) HARDWARE MAINTENANCE PANEL (see figure 2-61) CABINET (Refer to 30390A Cabinet Maintenance Manual, part no. 30390-90001.)		30001A 30002A OBD 30310A 30350A 30352A 30390A	PER

Table 2-2. Central Processor Unit, Replaceable Parts

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
2-1-	30001A	CENTRAL PROCESSOR UNIT (Refer to table 2-1)			
1	30001-60001	* READ-ONLY MEMORY (ROM) PCA (A3) (see figure 2-2)	28480	30001-60001	1
2	30001-60002	* SKIP AND SPECIAL FIELD (SSF) PCA (A4) (see figure 2-3)	28480	30001-60002	1
3	30001-60003	* ARITHMETIC AND LOGIC UNIT (ALU) PCA (A5) (see figure 2-4)	28480	30001-60003	1
4	30001-60004	* R-BUS PCA (A6) (see figure 2-5)	28480	30001-60004	1 1
5	30001-60005	* S-BUS PCA (A7) (see figure 2-6)	28480	30001-60005	1
6	30001-60006	* CURRENT INSTRUCTION REGISTER (CIR) PCA (A8) (see figure 2-7)	28480	30001-60006	1
7	30001-60007	* MODULE CONTROL UNIT (MCU) PCA (A9) (see figure 2-8)	28480	30001-60007	1
8	30001-60008	* INPUT/OUTPUT PROCESSOR (IOP) PCA (A10) (see figure 2-9)	28480	30001-60008	1
9	No Number	* FAN ASSEMBLY (see figure 2-43)			1 1
10	No Number	* CARD CAGE ASSEMBLY			
	30001-60009	* CENTRAL DATA BUS TERMINATOR PCA (not shown) (see figure 2-10)	28480	30001-60009	•
	30001-60016	* INPUT/OUTPUT PROCESSOR BUS TERMINATOR PCA (not shown) (see figure 2-11)	28480	30001-60016	•
	30001-60021	* POWER BUS TERMINATOR PCA (not shown) (see figure 2-12)	28480	30001-60021	•
	30001-60010	* CONTROL ASSEMBLY (not shown) (see figure 2-13)	28480	30001-60010	•

[♦] Units per assembly depend on system configuration.

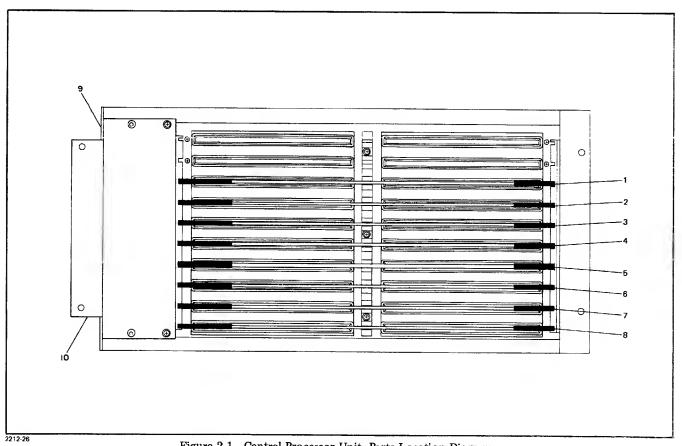


Figure 2-1. Central Processor Unit, Parts Location Diagram

Table 2-3. Read-Only Memory (ROM) PCA (A3), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3 A3C1 A3C2 A3C3 A3C4	30001-60001 0160-2055 0160-2055 0160-2055 0160-2055	1 30	REAO-ONLY MEMORY(ROM) PCA C:FXO CER 0.01 UF +80-20% 100VDCH C:FXO CER 0.01 UF +80-20% 100VDCH C:FXO CER 0.01 UF +80-20% 100VDCH C:FXO CER 0.01 UF +80-20% 100VOCH	2848C 56289 56289 56289 56289	3C001-63C01 CC23F101F1C3ZS22-CDH CO23F101F1C3ZS22-CDH CO23F101F1C3ZS22-CDH CC23F101F1D3ZS22-CDH
A3C5 A3C6 A3C7 A3C8 A3C9	0160-2055 0160-2055 0160-2055 0160-2055 0150-0121	8	C:FXD CER 0.01 UF +80-20% 1GOVDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW	56289 56289 56289 56289 56289	CC23F101F103ZS22-CUF C023F101F1U3ZS22-CUF CC23F101F1C3ZS22-CUF CC23F101F103ZS22-CUF 5C5C8IS-CML
A3C10 A3C11 A3C12 A3C13 A3C14	0160-0229 0160-0127 0160-2055 0160-2055 0160-2055	2 2	C:FXD CER 1.0 UF 20% 25VDCW C:FXD CER D.01 UF +80-20% 1D0VDCW C:FXD CER 0.01 UF +80-20% 1D0VDCW C:FXO CER 0.D1 UF +80-20% 1D0VDCW	56289 56289 56289 56289	50130S-CML 6023F101F103ZS22-CUF 6023F101F103ZS22-CUF 6023F101F103ZS22-CUF
A3C15 A3C16 A3C17 A3C18 A3C19	0160-2055 0160-2055 0160-2055 0160-2055 0150-0121		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.1 UF +80-20% 50VOCW	56289 56289 56289 56289 56289	C023F1C1F103ZS22-CbF C023F101F1C3ZS22-CbF C023F101F1C3ZS22-CbF C023F1C1F1C3ZS22-CbF 5C5C8IS-CML
A 3C 2C A 3C 21 A 3C 22 A 3C 23 A 3C 24	0150-0121 0150-0121 0160-2055 0160-2055 0160-2055		C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C5C8IS-CML 5C50BIS-CML CC23F101F1G3ZS22-CDH C023F101F1G3ZS22-CDH CC23F101F1G3ZS22-CDH
A 3C 25 A 3C 26 A 3C 27 A 3C 28 A 3C 29	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER D.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER D.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56285 56289 56289 56289 56289	C023F1u1F1ú3Z\$22-Cuh C023F101F103Z\$22-CUh C023F101F103Z\$22-CCh C023F101F103Z\$22-CUh CC23F101F103Z\$22-CUh
A3030 A3031 A3032 A3033 A3034	0160-2055 C160-2055 0160-2055 0160-2055 C150-0121		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.1 UF +80-20% 50VDCW	56289 56289 56289 56289 56289	0023F101F103ZS22-CDF 0023F101F103ZS22-CDF 0023F101F103ZS22-CDF 0023F101F103ZS22-CDF 505081S-CMF
A3C35 A3C36 A3C37 A3C38 A3C39	C160-2055 C160-2055 0160-2C55 0160-0127 0160-0229		C:FXD CER D.D1 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 1.0 UF 20% 25VOCW	56285 56289 56289 56289	CG23F101F1d32S22+CDF CG23F1C1F1C32S32+CDF CG23F101F1C32S22+CDF 5C13CS+CML
A3R1 A3R2 A3R3 A3R4 A3R5	1810-0080 1810-003C 1810-0080 1810-0030 0757-0416	9 4	R:NETWORK 7 X 500 DHM 5% 0.15W EACH NETWORK:7 RESISTORS 1K CHM 5% 0.15W EA R:NETWORK 7 X 500 DHM 5% 0.15W EACH NETWORK:7 RESISTORS 1K CHM 5% 0.15W EA R:FXD MET FLM 511 DHM 1% 1/8W	2848C 2848C 2848C 2848C 2848C 2848G	1810~CC60 1810~C030 1810~G080 1816~CC30 0757~0416
A3R6 A3R7 A3R8 A3R9 A3R1J	0757-028D 0757-0280 0757-0416 1810-0080 1810-0080	11	R:FXD MET FLM 1K DHM 1% 1/8W R:FXD MET FLM 1K DHM 1% 1/8W R:FXD MET FLM 511 DHM 1% 1/8W R:NETWORK 7 X 500 DHM 5% 0.15W EACH R:NETWORK 7 X 500 DHM 5% 0.15W EACH	28480 28480 28480 28480 28480	3757-C283 C757-C283 C757-C416 1810-C080 1810-C08C
A3R11 A3P12 A3R13 A3R14 A3R15	1810-0080 1810-0C30 0757-0416 0757-0280 0757-0280		R:NETWORK 7 X 5DD OHM 5% 0.15W EACH NETWORK:7 RESISTORS 1K OHM 5% C.15W EA R:FXD MET FLM 511 OHM 1% 1/8W R:FXD HET FLM 1K DHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	1810-0380 1810-0430 0757-0416 0757-0280 0757-0280
A3R16 A3R17 A3R18 A3R19 A3R20	0757-0416 1810-0080 1810-0080 1810-0030 1810-0080		R:FXO MET FLM 511 DHM 1% 1/8W R:NETWORK 7 X 500 DHM 5% 0.15W EACH R:NETWORK 7 X 500 DHM 5% 0.15W EACH NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA R:NETWORK 7 X 500 OHM 5% 0.15W EACH	2848C 2848C 2848C 2848C 2848C	3757-0416 1810-0080 1810-0080 1810-0090 1810-0080
A3R21 A3R22 A3R23 A3R24 A3R25	0757-0280 0757-028D 1810-0080 0757-0280 0757-0280		R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:NETWORK 7 X 500 OHM 5% C.15W EACH R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W	2848C 28480 2848C 2848C 2848C	0757-0280 0757-0280 1810-0080 0757-0280 0757-0280
A3R26 A3R2 7 A3R28 A3R29 A3R3ú	0757-0280 0757-0280 0698-0082 0698-0082 0757-0280	2	R:FXD MET FLM 1K DHM 1% 1/8W R:FXD MET FLM 1K DHM 1% 1/8W R:FXD MET FLM 464 DHM 1% 1/8W R:FXD MET FLM 464 DHM 1% 1/8W R:FXD MET FLM 1K GHM 1% 1/8W	2848C 2848C 2848C 2848C 2846C 2848C	0757-0280 0757-0260 0698-0082 0698-0062 0757-0280
A3U1	1816-0015	56	LC:ROM Note:	28480	1816-C015
A3U12	1816-0073	1	QUANTITIES OF PROMS LISTED ABOVE ARE THOSE REQUIRED TO ROMS. IC:ROM 4 X 256	2848C	1816-C073

Table 2-3. Read-Only Memory (ROM) PCA (A3), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A 3U 15 A 3U 17 A 3U 18 A 3U 19 A 3U 21	1816-0675 1816-0677 1816-0078 1816-0079 1820-0759	1 1 1 4	IC:ROM 4 X 256 IC:TTL LOW-POWER 8-8IT RECEIVER	2848C 2848C 2848C 2848C 2848O 2848G	1816-3075 1816-0077 1816-0078 1816-0075 1820-0755
A3U22 A3U25 A3U27 A3U28 A3U29	1816-0080 1816-0082 1816-0084 1816-0085 1816-0086	1 1 1 1	IC:ROM 4 X 256	2848C 2848C 2848C 2848C 2848C	18160080 18160082 18160084 18160085 18160086
A3U32 A3U35 A3U3T A3U38 A3U39	1816-008T 1816-0089 1816-0091 1816-0092 1816-0093	1 1 1 1	IC:ROM 4 X 256	2848C 2848G 2848G 2848G 2848G	1816-C087 1816-0089 1816-C051 1816-0052 1816-0053
A3U41 A3U42 A3U44 A3U45 A3U48	1820-0759 1816-0094 1816-0280 1816-0096 1816-0099	1 1 1	IC:TTL LOW-POWER 8-BIT RECEIVER IC:ROM 4 X 256	28480 28480 28480 28480 28480	1820-C759 1816-0094 1816-0280 1816-0096 1816-0099
A 3U4 9 A 3U5 1 A 3U5 2 A 3U5 4 A 3U5 5	1816-0100 1820-0759 1816-0101 1816-0281 1816-0103	1 1 1	IC:ROM 4 X 256 1C:TTL LOW-POWER 8-8IT RECEIVER 1C:ROM 4 X 256 1C:ROM 4 X 256 IC:ROM 4 X 256	28480 28480 28480 28480 28480	1816-0100 1820-0759 1816-0101 1816-0281 1816-0103
A 3057 A 3059 A 3062 A 3064 A 3065	1816-0105 1816-0107 1816-0108 1816-0282 1816-0110	1 1 1 1	1C:ROM 4 X 256 IC:ROM 4 X 256 IC:ROM 4 X 256 IC:ROM 4 X 256 IC:ROM 4 X 256	2848¢ 28480 2848¢ 28480 28480	1816-0105 1816-0107 1816-0108 1816-0282 1816-0110
A3U68 A3U69 A3U71 A3U72 A3U74	1816~0113 1816~0114 1820~0759 1816~0115 1816~0283	1 1 1	IC:ROM 4 X 256 IC:ROM 4 X 256 IC:ROM 4 X 256 IC:TTL LOM-POMER 8~8IT RECEIVER IC:ROM 4 X 256 IC:ROM 4 X 256	2848C 2848C 28480 28480 2848C	1816-0113 1816-0114 1820-0759 1816-0115 1816-0283
A3U75 A3UT7 A3UT8 A3U79 A3U81	1816~0117 1816~0119 1816~0120 1816~0121 1820~0755	1 1 1 4	IC:RDM 4 X 256 IC:RDM 4 X 256 IC:RDM 4 X 256 IC:RDM 4 X 256 IC:RDM 4 X 256 IC	2848C 2848C 2848C 2848C 2848C	1816-0.17 1816-0119 1816-0120 1816-0121 1820-0755
A 3U 8 2 A 3U 8 4 A 3U 8 5 A 3U 8 7 A 3U 8 8	1816-0122 1816-0284 1816-0124 1816-0126 1816-012T	1 1 1 1	IC:RDM 4 X 256 IC:RDM 4 X 256 IC:RDM 4 X 256 IC:RDM 4 X 256 IC:RDM 4 X 256	2848C 2848C 28480 28480 2848C	1816-0122 1816-0284 1816-C124 1816-0126 1816-0127
A3U89 A3U91 A3U92 A3U93 A3U94	1816-D128 182C-0373 1820-0755 1820-1033 1820-0690	1 5 11 1	IC:RDM 4 X 256 IC:TTL HS DUAL 4—INPT NAND GATE IC IC (OSIT538) IC:TTL SCHOTTKY DUAL 4—INPT NAND BUFFER	2848C 01295 2848C 2848C 01295	1816-C128 SN74H2Ch 1620-C755 1820-1033 SN74546N
A3U95 A3U96 A3U97 A3U98 A3U99	1820-0140 1820-0846 1820-0846 1820-0846 1820-0686	2 6 1	IC:TTL DUAL 4-INPT AND SUFFER IC:TTL DIGITAL QUAD BUFFER IC:TTL DIGITAL QUAD BUFFER IC:TTL DIGITAL QUAD SUFFER IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE	04T13 1204C 1204C 1204C 1204C	MC3026P UM 8094N OM 8054N DM 8054N SNT4S11N
A3U101 A3U102 A3U103 A3U104 A3U1C5	1820-0373 1820-1033 1820-0574 1820-0574 1820-0574	9	IC:TTL HS DUAL 4-INPT NAND GATE IC (DS17538) IC:DIGITAL TTL QUAD D-F/F IC:DIGITAL TTL QUAD D-F/F IC:DIGITAL TTL QUAD D-F/F	01295 28480 12040 12040 1204C	SN74H2Ch 1820-1033 DM6551h DM8551h DM8551h
A 30106 A 30107 A 30108 A 30109 A 30111	1820-0574 1820-0574 1820-0574 1820-0846 1820-0373		IC:DIGITAL TTL QUAD D-F/F IC:DIGITAL TTL QUAD D-F/F IC:DIGITAL TTL QUAD D-F/F IC:TTL DIGITAL QUAD BUFFER IC:TTL HS DUAL 4-INPT NAND GATE	12040 12040 12040 12040 12040	DM8551N DM8551N DM8551N DM 8094N SN74H2CA
A3U112 A3U113 A3U114 A3U115 A3U116	1820-0574 1820-0282 1820-1033 1820-1033 1820-1033	3	IC:DIGITAL TTL QUAD D-F/F IC:TTL QUAD 2-INPT EXCL. DR GATE IC (DS17538) IC (DS17538) IC (DS17538)	12C4C C1295 2848C 2848C 2848C	DM8551N SN7486N 1820-1033 1820-1033 1820-1033
A3U117 A3U118 A3U119 A3U121 A3U122	1820-1033 1820-1033 1820-0574 1820-03T3 1820-0282		IC (DS17598) IC (DS17598) IC:OIGITAL TIL QUAD D-F/F IC:TIL HS DUAL 4-INPT NAND GATE IC:TIL QUAO 2-INPT EXCL. DR GATE	28480 28480 12040 01295 01295	182C-1033 182C-1033 DM655IN SN74H2ON SN74B6N

Table 2-3. Read-Only Memory (ROM) PCA (A3), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3U123 A3U125 A3U126 A3U127 A3U128	1820-0374 1820-0141 1820-1033 1820-0846 1820-0846	3 2	IC:TTL HS DUAL 4-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TS17538) IC:TTL DIGITAL QUAD BUFFER IC:TTL DIGITAL QUAD BUFFER	01295 64713 28480 12040 12040	SN74H21N MC3C01P 18zD-1033 OM 8054N OM 8054N
A3U129 A3U131 A3U132 A3U133 A3U135	1820-1033 1820-0424 1820-0755 1820-0372 1820-0424	3 1	IC (DS17538) IC:TTL HS HEX INVERTER IC IC:TTL TRIPLE 3-INPT ANO GATE IC:TTL HS HEX INVERTER	28480 04713 28480 28480 04713	1820-1033 SN74H04N 1820-0755 1820-0372 SN74H04A
A3U141 A3U142 A3U143 A3U145 A3U146	1820-0239 1820-0374 1820-0141 1820-0373 1820-0371	1	IC:TTL QUAO 2-INPT NOR GATE IC:TTL HS OUAL 4-INPT ANO GATE IC:TTL QUAO 2-INPT ANO GATE IC:TTL HS OUAL 4-INPT NANO GATE IC:TTL HS TRIPLE 3-INPT NANO GATE	28480 C1295 04713 C1295 O1295	1820-C239 SN74H21N MC3001P SN74H2CN SN74H10N
A3U149 A3U151 A3U152 A3U154 A3U155	1820-1033 1820-1033 1820-0282 1820-0374 1820-0424		IC (DS17538) IC (DS17538) IC:TTL QUAD 2-INPT EXCL. OR GATE IC:TTL HS OUAL 4-INPT ANO GATE IC:TTL HS HEX INVERTER	2848C 2848C C1295 01295 04713	1820-1033 1820-1033 SN7486N SN74H21N SN74HD4N
A3U156 A3U159 A3U161 A3U162 A3U14	1820-0837 1810-0037 1820-0574 1820-0755 1816-0199	1 1 2	IC:TTL OUAL 4-INPT NOR GATE RESISTOR ARRAY:IK OHM 2% IW EACH IC:OIGITAL TTL QUAO D-F/F IC IC:rcm	18324 28480 12040 28480 28480	N8815A 1810-C037 0N8551N 1820-C755 1816-0199
A3U14 A3U16 A3U24 A3U26 A3U34	1816-0260 1816-0240 1816-0261 1816-0241 1816-0262	1 1 1 1	IC:ROM IC:ROM IC:ROM IC:ROM IC:ROM IC:ROM	28480 28480 28480 28480 28480	1816-0260 1816-0240 1816-0261 1816-0241 1816-0262
A3U36 A3U46 A3U47 A3U56 A3U58	1816-0242 1816-0243 1816-0228 1816-0244 1816-0245	. 1 1 1 1	IC:ROM IC:ROM IC:ROM IC:ROM IC:ROM	28480 28480 28480 28480 28480	1816-0242 1816-0243 1816-0228 1816-0244 1816-0245
A3U66 A3U67 A3U76 A3U86 A3U95	1816-0246 1816-0227 1816-0247 1816-0248 1820-014C	1 1 1	1C:ROM IC:ROM IC:ROM IC:ROM IC:TTL OUAL 4-INPT AND SUFFER	2848C 2848C 28480 2848C 04713	1816-C246 1816-0227 1816-0247 1816-0248 MC3D26P

Table 2-3. Read-Only Memory (ROM) PCA (A3), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3U125 A3U125 A3U126 A3U127 A3U128	18 20-0374 1820-0141 1820-1033 1820-0846 1820-0846	3 2	1C:TTL HS DUAL 4-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC (DS17538) IC:TTL DIGITAL QUAD BUFFER IC:TTL DIGITAL QUAD BUFFER	01295 04713 28480 12040 12040	SN74H21N MC3C01P 1820-1033 DM 8094N DM 8094N
A3U129 A3U131 A3U132 A3U133 A3U135	1820-1033 1820-0424 1820-0755 1820-0372 1820-0424	3 1	IC (DS17538) 1C:TTL HS HEX INVERTER IC IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HS HEX INVERTER	2848C 04713 2848C 2848C 04713	1820-1033 SN74H04N 1820-0755 1820-0372 SN74H04N
A3U141 A3U142 A3U143 A3U145 A3U146	1820-0239 1820-0374 1820-0141 1820-0373 1820-0371	1	IC:TTL QUAD 2-INPT NDR GATE IC:TTL HS QUAL 4-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL HS DUAL 4-INPT NAND GATE IC:TTL HS TRIPLE 3-INPT NAND GATE	28480 01295 04713 01295 01295	1820-0239 SN74H21N HC3001P SN74H2CN SN74H10N
A3U149 A3U151 A3U152 A3U154 A3U155	1820-1033 1820-1033 1820-0282 1820-0374 1820-0424		IC (DS17538) IC (DS17538) IC:TTL QUAD 2-INPT EXCL. DR GATE IC:TTL HS DUAL 4-INPT AND GATE IC:TTL HS HEX INVERTER	2848C 2848C 01295 01295 04713	1820-1033 1820-1033 SN7486N SN74H21N SN74H04N
A3U156 A3U159 A3U161 A3U162	1820-0837 1810-0037 1820-0574 1820-0755	1	IC:TTL DUAL 4-INPT NOR GATE RESISTOR ARRAY:1K DHM 2% 1W EACH IC:DIGITAL TTL QUAD D-F/F IC	18324 28480 12040 28480	N8815A 1810-0037 DM8551N 1820-0755
A3U14 A3U16 A3U24 A3U26 A3U34	1816-0277 1816-0240 1816-0278 1816-0241 1816-0279	1 1 1	IC:RDM IC:RDM IC:ROM IC:RDM IC:RDM	28480 28480 28480 28480 28480	1816-0277 1816-0240 1816-0278 1816-0241 1816-0279
A3U36 A3U46 A3U47 A3U56 A3U58	1816-0242 1816-0243 1816-0228 1816-0244 1816-0245	1 1 1 1	1C:RDM IC:RDM IC:RDM IC:RDM IC:RDM	28480 28480 28480 28480 28480	1816-0242 1816-0243 1816-0228 1816-0244 1816-0245
A 3U 66 A 3U 67 A 3U 76 A 3U 86 A 3U 95	1816-0246 1816-0227 1816-0247 1816-0248 1820-0140	1 1 1	IC:RDM IC:RDM IC:RDM IC:RDM IC:TTL DUAL 4-INPT AND BUFFER	28480 28480 28480 28480 04713	1816-C246 1616-U227 1816-C247 1816-C24d MC3G26P
			,		

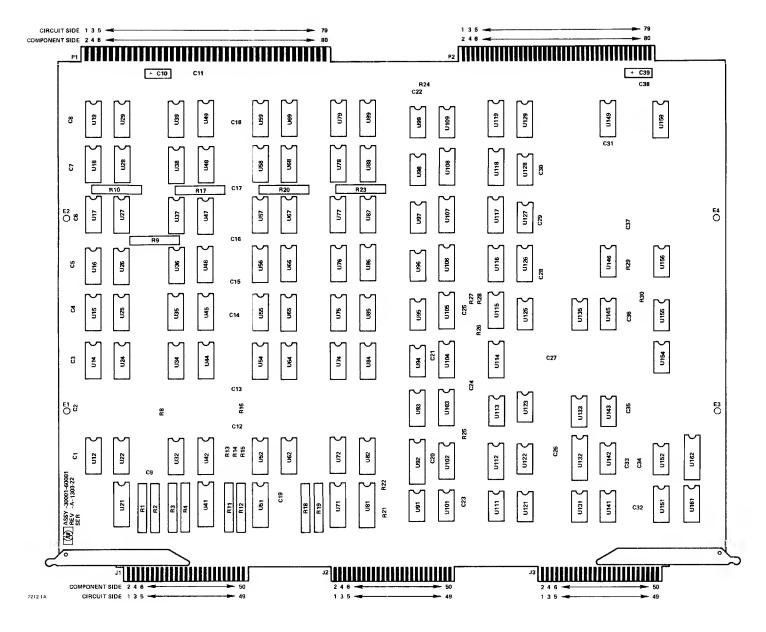


Figure 2-2. Read-Only Memory (ROM) PCA (A3), Part Location Diagram

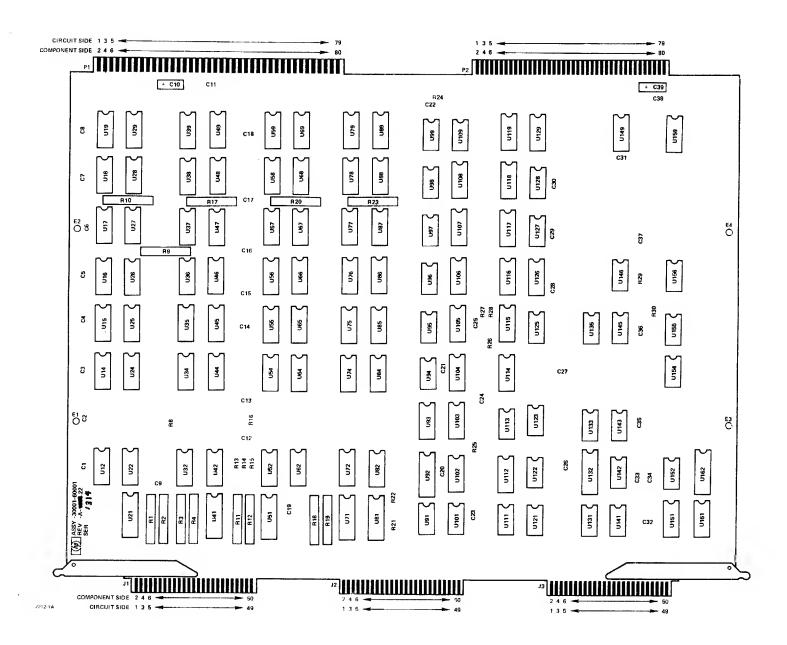


Figure 2-2. Read-Only Memory (ROM) PCA (A3), Part Location Diagram

Table 2-4. Skip and Special Field (SSF) PCA (A4), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4 A4C1 A4C2 A4C3 A4C4	30001-60002 0160-2055 0180-0229 0180-0229 0180-0229	1 48 3	SKIP AND SPECIAL FIELD(SSF) PCA C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 33 UF 10% 10VOCW C:FXO ELECT 33 UF 10% 10VCCW C:FXO ELECT 1.0 UF 10% 35VDCW	28480 56289 28480 28480 56289	30001~60002 C023F101F103ZS22~CDH 0180~0229 0180~0229 1500105X9035A2~DYS
A4C5 A4C6 A4C7 A4C8 A4C9	0160-0127 0160-0127 0180-0197 0160-2055 0160-2055	11 9	C:FXO CER 1.0 UF 20% 25VOCW C:FXO CER 1.0 UF 20% 25VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXO CER 3.01 UF +80-20% 100VDCW C:FXO CER 3.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C13CS-CML 5C13CS-CML 1500225X9020A2-DYS C023F101F103ZS22-CDH C023F101F103ZS22-COH
A4C10 A4C11 A4C12 A4C13 A4C14	0160-2055 0160-2055 0160-2055 0160-2055 0160-2101	1	C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 3.01 UF +80-20% 100VOCW C:FXD MICA 27PF 2% 300VDCW	56289 56289 56289 56289 72136	COZ3F101F103ZSZZ-COH COZ3F101F103ZSZZ-COH COZ3F101F103ZSZZ-COH COZ3F101F103ZSZZ-COH ROM15E270G3C
A4C15 A4C16 A4C17 A4C18 A4C19	0180-0197 0160-0127 0160-2055 0160-2055 0160-2055		C:FXO ELECT 2.2 UF 10% 20VDCW C:FXD CER 1.0 UF 20% 25VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	150D225X9020A2-UYS 5C13CS-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A4C20 A4C21 A4C22 A4C23 A4C24	0160-2055 0160-2055 0160-2055 0180-0197 0180-0229		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD ELECT 2.2 UF 10% 20VDCW C:FXD ELECT 33 UF 10% 10VDCW	56289 56289 56289 56289 28480	C023F101F103ZSZ2-C0H C023F101F103ZSZ2-C0H C023F101F103ZSZ2-CDH 1500Z25X9020A2-0YS 0180-0229
A4C25 A4C26 A4C27 A4C28 A4C29	0163-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A4C30 A4C31 A4C32 A4C33 A4C34	0160-2055 0180-0197 0160-2055 0160-2055 0160-0127		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO ELECT 2-2 UF 10% 20VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 1.0 UF 20% 25VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH 1500225X9020A2-0YS C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C13CS-CML
A4C35 A4C36 A4C37 A4C38 A4C39	0160-2055 0160-2055 0160-2055 0160-2055 0160-0127		C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXD CER 3.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 1.0 UF 20% 25VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 5C13CS-CHL
A4C40 A4C41 A4C42 A4C43 A4C44	0160-2055 0160-0127 0160-2055 0160-0127 0160-0127		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 1.0 UF 20% 25VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 1.0 UF 20% 25VOCW C:FXO CER 1.0 UF 20% 25VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H 5C13CS-CML C023F101F103ZS22-C0H 5C13CS-CML 5C13CS-CML
A4C45 A4C46 A4C47 A4C48 A4C49	0180-0197 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO ELECT 2-2 UF 10% 20VDCW C:FXO CER 0-01 UF +80-20% 100VOCW C:FXO CER 0-01 UF +80-20% 100VOCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	150D225X9020A2-0YS C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-COH
A4C50 A4C51 A4C52 A4C53 A4C54	0160-0127 0180-0197 0160-2055 0160-2055 0160-2055		C:FXO CER 1.0 UF 20% 25 VOCW C:FXO ELECT 2.2 UF 10% 20 VOCW C:FXD CER 0.01 UF +80-20% 100 VOCW C:FXO CER 0.01 UF +80-20% 100 VOCW C:FXO CER 0.01 UF +80-20% 100 VOCW	56289 56289 56289 56289 56289	5C13CS-CML 1500225X9020A2-0YS C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A4C55 A4C56 A4C57 A4C58 A4C59	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 10DVDCW C:FXD CER 0.01 UF +80-20% 10DVOCW C:FXD CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A4C60 A4C61 A4C62 A4C63 A4C64	0160-2055 0160-2055 0180-0197 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 2.2 UF 10% 20VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH 150D225X9020A2-0YS C023F101F103ZS22-CDH C023F101F103ZS22-C0H
A4C65 A4C66 A4C67 A4C68 A4C69	0160-3954 0160-2055 0160-2055 0160-2055 0160-2055	1	C:FXD 0.33 UF C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW	28480 56289 56289 56289 56289	0160-3954 C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
A4C70 A4C71 A4C72 A4C73 A4C74	0160-2055 0160-0127 0180-0197 0160-0127 0180-0197		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 1.0 UF 20% 25VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXD CER 1.0 UF 20% 25VDCW C:FXO ELECT 2.2 UF 10% 20VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH 5C13CS-CML 150D225X9020A2-0YS 5C13CS-CML 150D225X9020A2-0YS

Table 2-4. Skip and Special Field (SSF) PCA (A4), Replaceable Parts (Continued)

AMERICA 1501-0040 1 1 CFRO MICA ATO PP 57 DODUCCH 1501-0040 1 1 1501-0040 0 1 0 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 0 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 0 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 0 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1001-0040 0 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1001-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0720-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA 30 WV 0730-3 PROLEGOS AMERICA 1501-0040 1 1000 511 LCON 30 MA	Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
AGERIA 1901-09400 6 0 010005111CON 30 MA 30 WV 07253 FREQUES STATES OF THE STATES OF T	A4C75 C	0160-2940	1	C:FXO MICA 470 PF 5% 300VDCH	72136	DOM1554.71 126
### ### ### ### ### ### ### ### ### ##	A4CR1 1	1901-0040		DIDOE:SILICON 50 MA 3D WV	07263	
### AGCRA 1901-0940 0100051111CON 50 M 30 NV 07263 F001088 AGCRA 1901-0940 0100051111CON 50 M 30 NV 07263 F001088 AGCRA 1901-0940 1120-094						
AGES 1001-0040 01000:51LICON 50 M 30 UV 07720 FPELDB ACCID 1001-0040 1000-0051LICON 50 M 30 UV 07720 FPELDB ACCID 1001-0051 1 1787-616 PMP 0131 372-005 ACCID 1001-0051 1 1787-616 PMP 0131 372-005 ACCID 1007-0051 1 1787-616 PMP 0131 1784 244-00 0000-344-1 ACCID 1007-0051 1 1787-						
### ### ### ### ### ### ### ### ### ##	A4CR5	1901+0040		DIOGE STATEON FOR HA 20 MM		
AAD1 1351-01357 12 TETRGE PRIP						
AMP2				TSTR:GE PNP	80131	
AR22						
AARS	A4B2	74.09-366.0	•			
### AREA 0.008-34-14 1 R.FED MET FL. 13 OM 13 1/2M 284-80 0.008-34-14 0.			2	R:FXD MET FLM 28.7K DHM 1% 1/8W		
### AMR7 0757-0280 REPUBLIC ON 12 128 224-80 0757-0280				R:FXO MET FLM 215 DHM 1% 1/8W	28480	
AMP 1 0059-4037 1			1			
### ARR J757-0280 R.FED MET FL. N. C. OH. IZ 1/28 294-00 0757-0280 0	A4.07	34.09-4.037			1	
AARS 0757-0280 RFFXD MET FLM IX OFM IX 1/8M 28480 0757-0280 10757-0280 1 RFFXD MET FLM IX OFM IX 1/8M 28480 0757-028			1			
AMRIL 0757-1000	A4R9	0757-0280		R:FXD MET FLM 1K OHM 1% 1/8W		
AGRICA AGRICA			1			0757-0280
### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 244-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. N. CHH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. 12 1/5M 224-80 0757-0280 ### ARELIA 0757-0280 R.F.KO MET FEH. 12 1/5M 224		i				
### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M RIFKO MET FEM IN COMINIT 1/5M 284-80 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M RIFKO MET FEM IN COMINIT 1/5M 0757-0280 ### ARRIS 0757-0280 RIFKO MET FEM IN COMINIT 1/5M 0757-0280			2			
ARRIS 0598-2440 RIFKO MET FLM IX CHM II I/SW 22440 0757-0240 ARRI7 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0240 ARRI7 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0280 ARRI8 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0280 ARRIS 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0280 ARRIS 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0280 ARRIS 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0280 ARRIS 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0280 ARRIS 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0280 ARRIS 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0280 ARRIS 0757-0280 RIFKO MET FLM IX CHM II I/SW 22440 0757-0280 ARRIS 0757-0280 15	A4R14 0	0757-0280		R:FXD MET FLM 1K OHM 1% 1/8W		
AGELT					28480	0698-3440
AMR 18 0757-0280 R R FAD MET FLM IX GMH 12 1/3M 224-8D 0757-0280 AMR 20 0757-0280 R R FAD MET FLM IX GMH 12 1/3M 28-80 0757-0280 AMR 20 0757-0280 R R R FAD MET FLM IX GMH 12 1/3M 28-80 0757-0280 0]				0151-0280
### AAR19 0757-0280 R FFRO MET FLM IX GIM IX 1/MB 284-80 0757-0280 0						
## ARR21	A4R19 0	0757-0280		R:FXD MET FLM 1K OHM 1% 1/8W		0757-0280
### ARR 22 0698-3132 1 R:FRD FLM 261 GHM 1X 1/8M 28480 0698-3132 1 1 1 1 1 1 1 1 1			1	R:FXO MET FLM 1K OHM 1% 1/8W	28480	0757-0280
AUU12 1820-0512 3 ICCTTL MS DUAL D F/F135 MHZ MIN.) 01295 SN74417AN AUU14 1820-0515 2 ICCTTL DUAL RE-TRIG/RE-SET MEND-MULT1 07263 U78960255X AUU18 1820-0047 4 ICCTTL DUAL RE-TRIG/RE-SET MEND-MULT1 07263 U78960255X AUU18 1820-0057 4 ICCTTL DUAL RE-TRIG/RE-SET MEND-MULT1 07263 U78960255X AUU18 1820-0057 9 ICCTTL DUAL A-IMPT LINE ORIUER 01295 SN745140N AUU22 1820-1033 1 ICCSIT-SSBB U78960255X AUU22 1820-1033 1 ICCSIT-SSBB U7896025X AUU23 1820-06424 6 ICCTTL DUAL A-IMPT LINE ORIUER 04713 SN74510AN AUU24 1820-0667 4 ICCTTL DUAL A-IMPT LINE ORIUER 04713 SN745113N AUU32 1820-0161 5 ICCTTL DUAL A-IMPT LINE ORIUER 01295 SN745113N AUU32 1820-0161 5 ICCTTL DUAL A-IMPT LINE ORIUER 01295 SN745113N AUU33 1820-0665 3 ICCTTL SMS DUAL J-K-F/F M/PRESET 01295 SN74510N AUU35 1820-0355 2 ICCTTL SMS DUAL J-K-F/F M/PRESET 01295 SN74510N AUU36 1820-0065 4 ICCTTL GUAD Z-IMPT AND GATE 01295 SN74510N AUU37 1820-0068 1 ICCTTL GUAD Z-IMPT AND GATE 01295 SN74510N AUU37 1820-0068 1 ICCTTL GUAD Z-IMPT AND GATE 01295 SN74510N AUU40 1820-0370 2 ICCTTL GUAD Z-IMPT AND GATE 01295 SN74520N AUU40 1820-0370 1 ICCTTL GUAD Z-IMPT AND GATE 01295 SN74520N AUU40 1820-0370 1 ICCTTL MS DUAL G-FF135 PH MIN GATE 01295 SN74510N AUU40 1820-0370 1 ICCTTL MS DUAL G-FF135 PH MAND GATE 01295 SN74510N AUU40 1820-0370 1 ICCTTL MS DUAL G-FF135 PH MAND GATE 01295 SN74510N AUU40 1820-0370 1 ICCTTL MS DUAL G-FF135 PH MAND GATE 01295 SN74511AN AUU40 1820-0370 1 ICCTTL MS DUAL G-FF135 PH MAND GATE 01295 SN74511AN AUU40 1820-0370 1 ICCTTL MS DUAL G-FF135 PH MAND GATE 01295 SN74511AN AUU40 1820-03			•	K-FAU REI FER 44-2K UHR 14 1/8W	28480	0698-4207
### A013 1820-0512						
ANUL4 1820-0515 2 ICTITL DUAL RE-TRIC/RE-SET MEND-MULT1 07263 U78960259X MAUL6 1820-0670 4 INTEGRATED CIRCUIT-41 INPUT 1.2 CR/N NOR			,			
A4U18				IC:TTL DUAL RE-TRIG/RE-SET MONO-MULT1	07263	U78960259X
AUU21 1820-0370 9 IC:TIL MS OUAD 2-INPT NAND GATE 01295 SN74NDON		1820-0142	1	INTEGRATED CIRCUIT: 4INPUT, 2-GR/NOR	04713	MC1004P
A4U22 1820-1033 1 IC 10S17538 28460 1820-1033 1 IC 10S17538 28460 31820-1033 374-1044h 34U24 3820-0695 4 ICITIL SHS DUAL J-K F/F WPRESET 01295 3N74-1044h 3N74-104h 3N74-104h						
### AU23 1820-0424 6 ICITIL MS DUAL J-K FF WPRESET 01295 SN74513N ### AU24 1820-0697 ICITIL UNAL 4-INPT LINE DRIVER 01295 SN74513N ### AU32 1820-0141 5 ICITIL UNAL 2-INPT AND GATE 04713 MC3001P ### AU32 1820-0141 1 ICITIL UNAD 2-INPT AND GATE 04713 MC3001P ### AU33 1820-0695 1 ICITIL UNAD 2-INPT AND GATE 01295 SN74610N ### AU34 1820-0695 1 ICITIL UNAD 2-INPT AND GATE 01295 SN74610N ### AU34 1820-0695 1 ICITIL UNAD 2-INPT NAND GATE 01295 SN74610N ### AU35 1820-0698 4 ICITIL UNAD 2-INPT NAND GATE 01295 SN74510N ### AU37 1820-0681 4 ICITIL UNAD 2-INPT NAND GATE 01295 SN74510N ### AU37 1820-0688 1 ICITIL UNAD 2-INPT NAND GATE 01295 SN7450N ### AU443 1820-0688 1 ICITIL UNAD 2-INPT NAND GATE 01295 SN7450N ### AU444 1820-0837 1 ICITIL UNAD 2-INPT NAND GATE 01295 SN7450N ### AU445 1820-0686 2 ICITIL SCHUTKY DUAL 4-INPT NAND GATE 18324 N8815A ### AU446 1820-0837 1 ICITIL UNAD 2-INPT NAND GATE 18324 N8815A ### AU446 1820-0837 1 ICITIL SCHUTKY RIPLE 3-INPT NAND GATE 01295 SN74476N ### AU447 1820-0141 ICITIL SCHUTKY RIPLE 3-INPT NAND GATE 01295 SN74476N ### AU447 1820-0370 ICITIL SCHUTKY RIPLE 3-INPT NAND GATE 01295 SN74476N ### AU456 1820-0370 ICITIL HS DUAL 2-INPT NAND GATE 01295 SN744176N ### AU456 1820-0695 ICITIL SCHUTKY RIPLE 3-INPT NAND GATE 01295 SN74511AN ### AU456 1820-0695 ICITIL HS DUAL 3-K FF EDGE TRIGGERED 01295 SN74511AN ### AU456 1820-0695 ICITIL SCHUTKY RIPLE 3-INPT NAND GATE 01295 SN74511AN ### AU456 1820-0695 ICITIL HS DUAL 3-K FF EDGE TRIGGERED 01295 SN74511AN ### AU456 1820-0695 ICITIL SCHUTKY RIPLE 3-INPT NAND GATE 01295 SN74511AN ### AU456 1820-0695 ICITIL SCHUTKY RIPLE 3-INPT NAND GATE 01295 SN74511AN ### AU457 1820-0695 ICITIL SCHUTKY RIPLE 3-INPT NAND GATE 01295 SN74511AN ### AU456 1820-0695 ICITIL SCHUTKY RIPLE 3-INPT N						
A4U28 1820-0697 IC:TTL DUAL 4-INPT LINE DRIVER O1295 SN7451AON MC3001P A4U32 1820-0141 S IC:TTL DUAD 2-INPT AND GATE O4713 MC3001P A4U33 1820-0685 A4U34 IR:DIAD CONTROL A4U35 IR:DIAD CONTROL A4U35 IR:DIAD CONTROL A4U36 IR:DIAD CONTROL A4U37 IR:DIAD CONTROL A4U38 IR:DIAD CONTROL A4U38 IR:DIAD CONTROL A4U38 IR:DIAD CONTROL A4U34 IR:DIAD CONTROL A4U37 IR:DIAD CONTROL	A4U23 1	1820-0424	6	IC:TTL HS HEX INVERTER	04713	SN74H04N
A4032 1820-0141 5 IC:TTL 0040 2-INPT AND GATE 04713 030019 A4033 1820-0379 6 IC:TTL 10402 2-INPT AND GATE 04713 030019 A4033 1820-0385 3 IC:TTL 15PEED J-K F/F 01295 SK74H101N A4036 1820-0375 2 IC:TTL HS 8-INPT NAND GATE 01295 SK74H101N A4036 1820-0695 IC:TTL HS 8-INPT NAND GATE 01295 SK74H30N A4036 1820-0695 IC:TTL SK8 DUAL J-K F/F M/PRESET 01295 SK74S10N A4038 1820-0335 1 IC:TTL 00A0 2-INPT NAND GATE 01295 SK74S10N A4043 1820-0205 2 IC:TTL 00A0 2-INPT NAND GATE 01295 SK74S10N A4044 1820-0205 2 IC:TTL 00A0 2-INPT NAND GATE 01295 SK74S20N A4044 1820-0337 1 IC:TTL 00A0 2-INPT NAND GATE 01295 SK74S20N A4046 1820-0312 2 IC:TTL UDA0 2-INPT NAND GATE 01295 SK74S2N A4046 1820-0310 A4048 A40		1020-0695	4	IC:IIL SHS DUAL J-K F/F W/PRESET	01295	SN74S113N
A4032 1820-0141			_			
A4U33 1820-0639 6 IC:TIT. HSPEED J-K F/F 3-INPT NAND GATE 01295 SN74HIOIN A4U35 1820-06375 2 IC:TIT. H.S. B-INPT NAND GATE 01295 SN74SION A4U36 1820-0695 IC:TIT. H.S. B-INPT NAND GATE 01295 SN74SION A4U37 1820-0681 4 IC:TIT. GUAD 2-INPT NAND GATE 01295 SN74SION A4U38 1820-0535 1 IC:TIT. GUAD 2-INPT NAND GATE 01295 SN74SION A4U38 1820-0535 1 IC:TIT. GUAD 2-INPT NAND GATE 01295 SN74SION A4U42 1820-0688 1 IC:TIT. GUAD 2-INPT NAND GATE 01295 SN74SION A4U44 1820-0837 1 IC:TIT. GUAD 2-INPT NAND GATE 01295 SN74SION A4U44 1820-0837 1 IC:TIT. SCHOTTKY DUAL 4-INPT NAND GATE 1822-0880 SN74SION A4U46 1820-0837 1 IC:TIT. SCHOTTKY DUAL 4-INPT NAND GATE 01295 SN74SION A4U46 1820-0837 1 IC:TIT. SCHOTTKY TRIPLE 3-INPT AND GATE 01295 SN74SION A4U46 1820-0837 1 IC:TIT. SCHOTTKY TRIPLE 3-INPT AND GATE 01295 SN74SION A4U47 1820-0837 2 IC:TIT. H.S DUAD 2-INPT NAND GATE 01295 SN74SION A4U52 1820-0370 1 IC:TIT. H.S DUAD 2-INPT NAND GATE 01295 SN74HOON A4U53 1820-0370 1 IC:TIT. H.S DUAL 2-INPT NAND GATE 01295 SN74HOON A4U54 1820-0695 1 IC:TIT. H.S DUAL 2-INPT NAND GATE 01295 SN74HOON A4U55 1820-0695 1 IC:TIT. H.S DUAL 2-INPT NAND GATE 01295 SN74HOON A4U57 1820-0695 1 IC:TIT. H.S DUAL 2-INPT NAND GATE 01295 SN74HOON A4U56 1820-0695 1 IC:TIT. H.S DUAL 2-K F/F BOPE TRIGGERED 01295 SN74SIISN A4U66 1820-0695 1 IC:TIT. BUAL 2-K F/F BOPE TRIGGERED 01295 SN74SIISN A4U66 1820-0695 1 IC:TIT. BUAL 2-K F/F BOPE TRIGGERED 01295 SN74SIISN A4U66 1820-0695 1 IC:TIT. BUAL 2-K F/F BOPE TRIGGERED 01295 SN74SIISN A4U66 1820-0695 1 IC:TIT. BUAL 2-K F/F BOPE TRIGGERED 01295 SN74SIISN A4U66 1820-0695 1 IC:TIT. BUAL 2-K F/F BOPE TRIGGERED 01295 SN74SIISN A4U67 1820-0371 8 IC:TIT. BUAL 2-K F/F BOPE TRIGGERED 01295 SN74SIISN A4U67 1820-0371 8 IC:TIT. BUAL 2-K			5			
A4U35 1820-0375 2 1C:TTL HS 8-INPT MAND GATE 01295 SN74H30N A4U36 1820-0681 4 1C:TTL GAG DUAL J-K F/F W/PRESET 01295 SN74S113N A4U37 1820-0535 1 IC:TTL QUAD 2-INPT AND GATE 01295 SN74S113N SN74S0N SN75S1P 1820-0235 1 IC:TTL QUAD 2-INPT OR GATE 01295 SN75S1P 1820-0205 2 IC:TTL QUAD 2-INPT OR GATE 01295 SN75S1P 1820-0205 1 IC:TTL QUAD 2-INPT OR GATE 01295 SN75S2DN SN75S1P 1820-0837 1 IC:TTL DUAL 4-INPT NOR GATE 18324 N881SA 1 IC:TTL SCHOTTKY DUAL 4-INPT NOR GATE 18324 N881SA 1 IC:TTL SCHOTTKY DUAL 4-INPT NOR GATE 18324 SN74S2DN N881SA 1 IC:TTL SCHOTTKY DUAL 2-INPT NOR GATE 18324 SN74S1IN N881SA 1820-0141 IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 SN74H74N MC300IP MC30	A4U33 1	1820-0739		IC:TTL H1-SPEED J-K F/F	01295	
A4036	A4U34 1	1820-0685	3	1C:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE	01295	SN 74 S1 ON
### A4137 1820-00881 4 1C:TTL GUAD 2-INPT NAND GATE 01295 SN74500N ### A4138 1820-00355 1 1C:TTL GUAD PFRI.2-INPT AND DRIVER 01295 SN74500N ### A4143 1820-00837 1 1C:TTL GUAD PFRI.2-INPT NAND GATE 1820-0025 ### A4144 1820-0837 1 1C:TTL DUAL 4-INPT NOR GATE 18324 N8815A ### A4145 1820-0512 1 1C:TTL BOUAL 0-F(135 MHZ MIN.) 01295 SN74520N ### A4146 1820-0152 1 1C:TTL SCHOTTKY DUAL 4-INPT NAND GATE 18324 N8815A ### A4146 1820-0152 1 1C:TTL SCHOTTKY TRIPLE 3-INPT AND GATE 01295 SN74H74N ### A4146 1820-0164 1 1C:TTL GUAD 2-INPT NAND GATE 01295 SN74H74N ### A4147 1820-0164 1 1C:TTL GUAD 2-INPT NAND GATE 01295 SN74H00N ### A4147 1820-0164 1 1C:TTL GUAD 2-INPT NAND GATE 01295 SN74H00N ### A4147 1820-0164 1 1 1 1 1 1 1 1 ### A4146 1 1 1 1 1 1 1 1 1 ### A4146 1 1 1 1 1 1 1 1 1 ### A4147 1 1 1 1 1 1 1 1 1			2			
A4U38 A4U38 A4U42 1820-0205 1 1C:TTL QUAD 2-INPT AND DRIVER 2 1C:TTL QUAD 2-INPT OR GATE A4U43 1820-0205 2 1C:TTL QUAD 2-INPT OR GATE A4U44 1820-0837 1 1C:TTL DUAL 4-INPT NOR GATE 1820-0512 A4U45 1820-0512 1C:TTL SCHOTTKY DUAL 4-INPT NOR GATE 1820-0517 1C:TTL BY DUAL 0-F/F135 MHZ MIN.] 1820-0141 1R20-0141 1R20-0370 1R20-0372 1R20-0372 1R20-0372 1R20-0370 1R20-0370 1R20-0370 1R20-0370 1R20-0370 1R20-0370 1R20-0496 1R20-0496 1R20-0496 1R20-0496 1R20-0496 1R20-0496 1R20-0496 1R20-0497 1R20-04			4			
### A4U43 1820-0688 1 1C:TIL SCHOTTKY DUAL 4-INPT NANO GATE 18324 N8815A	A4U38 1	820-0535	1	IC:TTL OUAL PFR1-2-INPT AND DRIVER		
### ### ### ### ### ### ### ### ### ##	A4U42 1	1820-0205	2	IC:TIL QUAD 2-INPT OR GATE	28480	1820-0205
### ### ### ### ### ### ### ### ### ##						
### ### ##############################			1			
A4U48 1820-0370 1C:TTL HS OUAD 2-INPT NAND GATE 28480 1820-0372 1820-0372 2 1C:TTL TRIPLE 3-INPT NAND GATE 28480 1820-0239 1820-0239 1C:TTL DUAL 2-INPT NAND GATE 28480 1820-0239 1C:TTL HS OUAD 2-INPT NAND GATE 28480 1820-0239 1C:TTL HS OUAD 2-INPT NAND GATE 01295 SN74H00N SN74H00N SN74S114N SN74H04N SN74S113N SN74H04N SN74S113N SN74H04N SN74H04N SN74H06N SN74S113N SN74H04N SN74H06N SN74S113N SN74H04N SN74H06N SN74S113N SN74H04N SN74H04N SN74H06N SN74S113N SN74H04N SN74H04N SN74H04N SN74H04N SN74H04N SN74H04N SN74H04N SN74H06N SN74S113N SN74H04N SN74H06N SN74S113N SN74H06N SN74H06N SN74H06N SN74S113N SN74H06N SN74H16N SN74H06N SN74H06	A4U46 1	820-0686	2	IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE	01295	SN74S11N
### A4U52 1820-0372 2 1C:TTL TRIPLE 3-1NPT AND GATE 28480 1820-0372 1820-0239 1C:TTL OUAD 2-1NPT NOR GATE 28480 1820-0239 1820-0239 1C:TTL S QUAD 2-1NPT NOR GATE 28480 1820-0239 1820-0239 1C:TTL S QUAD 2-1NPT NOR GATE 28480 1820-0239 1820-0239 1C:TTL DUAL J-K F/F EDGE TRIGGERED 01295 SN745114N 1820-0696 4 1C:TTL DUAL J-K F/F EDGE TRIGGERED 01295 SN745114N 1820-0695 1C:TTL SHS DUAL J-K F/F W/PRESET 01295 SN745113N 1820-0376 2 1C:TTL SHS DUAL J-K F/F W/PRESET 01295 SN745113N 1820-0424 1C:TTL S HEX INVERTER 04713 SN74H04N 1820-0724 1 1C:TTL DUAL 2-4 OECODER W/ENABLE 04713 HC4007P 162-0724 1 1C:TTL DUAL 2-4 OECODER W/ENABLE 04713 HC4007P 1820-0759 1 1C:TTL DUAL J-K F/F EDGE TRIGGERED 01295 SN745110N 1820-0759 1 1C:TTL SCHOTTKY TRIPLE 3-1NPT NANO GATE 01295 SN74510N 1820-0759 1 1C:TTL DUAL 4-1NPT LINE DRIVER 01295 SN745140N 1820-0371 8 1C:TTL DUAL 4-1NPT LINE DRIVER 01295 SN745140N 1820-0371 8 1C:TTL HS TRIPLE 3-1NPT NAND GATE 01295 SN745140N 1820-0371 8 1C:TTL HS TRIPLE 3-1NPT NAND GATE 01295 SN74H10N 1820-0424 IC:TTL HS TRIPLE 3-1NPT NAND GATE 01295 SN74H10N 1820-0424 IC:TTL HS TRIPLE 3-1NPT NAND GATE 04713 MC3001P MC4076 1820-0686 IC:TTL HS HEX INVERTER 04713 MC3001P MC4076 1820-0686 IC:TTL HS CHOTTKY TRIPLE 3-1NPT AND GATE 04713 MC3001P MC4076 1820-0686 IC:TTL HS CHOTTKY TRIPLE 3-1NPT AND GATE 04713 MC3001P MC4076 1820-0686 IC:TTL SCHOTTKY TRIPLE 3-1NPT AND GATE 04713 MC3001P MC4076 1820-0686 IC:TTL DUAL 2-1NPT AND GATE 04713 MC3001P MC4076 MC4	1	1820-0141		ILTIL OUAD 2-INPT AND GATE	04713	MC3001P
### A4U53 1820-0239 2 IC:TTL OUAD 2-INPT NOR GATE 28480 1820-0239 1820-0370 1C:TTL HS OUAD 2-INPT NAND GATE 01295 SN74H00N SN74H10N						
A4U54 A4U55 1820-0696 4						
### A4U55 1820-0696 4 IC:TIL DUAL J-K F/F EDGE TRIGGERED 01295 SN74S114N ### A4U56 1820-0695 1C:TIL SHS DUAL J-K F/F W/PRESET 01295 SN74S113N ### A4U57 1820-0376 2 IC:TIL SHS DUAL J-K F/F W/PRESET 01295 SN74S113N ### A4U63 1820-0424 IC:TIL HS DUAL 4-INPT NAND 8UFFER 04713 SN74H04N ### A4U64 1820-0724 1 IC:TIL DUAL 2-4 OECODER W/ENABLE 04713 MC4007P ### A4U65 1820-0696 IC:TIL DUAL J-K F/F EDGE TRIGGERED 01295 SN74S114N ### A4U66 1820-0695 1 IC:TIL DUAL J-K F/F EDGE TRIGGERED 01295 SN74S110N ### A4U67 1820-0759 1 IC:TIL SCHOTTKY TRIPLE 3-INPT NAND GATE 01295 SN74S10N ### A4U68 1820-0697 IC:TIL LOW-POWER 8-81T RECEIVER 28460 1820-0759 ### A4U68 1820-0371 8 IC:TIL HS TRIPLE 3-INPT NAND GATE 01295 SN74S140N ### A4U73 1820-0371 8 IC:TIL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N ### A4U73 1820-0371 1C:TIL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N ### A4U74 1820-0424 IC:TIL HS TRIPLE 3-INPT NAND GATE 04713 MC3001P ### A4U76 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### A4U76 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 01295 SN74S1IN ### A4U76 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHA TO THE AAU76 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHA TO THE AAU76 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHA TO THE AAU76 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHA TO THE AAU76 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHA TO THE AAU76 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHA TO THE AAU76 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHA TO THE AAU76 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHA TO THE AAU76 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHA TO THE AAU76 IC:TIL SCHOTTK	A4U54 1	1820-0370		1C:TTL HS QUAD 2-INPT NAND GATE	01295	SN 74HOON
### A4U57 1820-0695 1C:TTL SHS DUAL J-K F/F W/PRESET 01295 SN74S113N ### A4U58 1820-0376 2 IC:TTL HS DUAL 4-INPT NAND 8UFFER 01295 SN74H04N ### A4U64 1820-0724 1 IC:TTL DUAL 2-4 OECODER W/ENABLE 04713 MC4007P ### A4U65 1820-0696 IC:TTL DUAL J-K F/F EDGE TRIGGERED 01295 SN74S114N ### A4U66 1820-0695 1 IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE 01295 SN74S10N ### A4U68 1820-0697 1 IC:TTL DUAL 4-INPT LINE DRIVER 01295 SN74S10N ### A4U68 1820-0697 1C:TTL DUAL 4-INPT LINE DRIVER 01295 SN74S140N ### A4U68 1820-0371 8 IC:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N ### A4U73 1820-0371 1C:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N ### A4U74 1820-0424 IC:TTL HS TRIPLE 3-INPT NAND GATE 04713 SN74H04N ### A4U75 1820-0141 IC:TTL HS HSEX INVERTER 04713 MC3001P ### A4U76 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 01295 SN74S1IN ### A4U76 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 01295 SN74S1IN ### CAUCHY TRIPLE 3-INPT AND GATE 04713 MC3001P ### CAUCHY TRIPLE 3-INPT AN	A4U55 1	1820-0696	4	IC:TTL DUAL J-K F/F EDGE TRIGGERED	01295	SN74S114N
## 1820-0695 1C:TTL SHS DUAL J-K F/F W/PRESET 01295 SN745113N ## 1820-0376 2 IC:TTL SHEX INVERTER 01295 SN74440N ## 1820-0424 IC:TTL SHEX INVERTER 04713 SN7440N ## 1820-0724 1 IC:TTL DUAL 2-4 OECODER W/ENABLE 04713 WC4007P ## 1820-0696 IC:TTL DUAL J-K F/F EDGE TRIGGERED 01295 SN745114N ## 1820-0695 1 IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE 01295 SN745110N ## 1820-0759 1 IC:TTL LOW-POWER 8-81T RECEIVER 28460 1820-0759 ## 1820-0371 8 IC:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN745140N ## 1820-0371 8 IC:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N ## 1820-0371 1 IC:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N ## 1820-0371 IC:TTL HS TRIPLE 3-INPT NAND GATE 04713 SN74H04N ## 1820-0424 IC:TTL HS TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 04713 MC3001P ## 1820-0686 I						
A4U63 A4U64 A4U64 A4U64 A4U64 A4U65 A4U66 A4U66 A4U66 A4U66 A4U66 A4U66 A4U67 A4U67 A4U67 A4U68 A4U69 A4U68 A4U68 A4U69 A4U72 A4U73 A4U73 A4U73 A4U73 A4U73 A4U73 A4U73 A4U74 A4U74 A4U74 A4U75 B20-0371 A4U75 B20-0371 A4U76 A4U76 A4U76 A4U76 A4U76 B20-0686 A4U76 A4U77 A4U77 A4U76 A4U76 A4U76 A4U76 A4U77 A4			2			
A4U64 1820-0724 1 IC:TIL DUAL 2-4 OECODER M/ENABLE 04713 HC4007P A4U65 1820-0696 IC:TIL DUAL J-K F/F EDGE TRIGGERED 01295 SN74S114N A4U66 1820-0759 1 IC:TIL SCHOTTKY TRIPLE 3-1NPT NANO GATE 01295 SN74S10N A4U68 1820-0759 1 IC:TIL LOM-POWER 8-81T RECEIVER 28460 1820-0759 A4U68 1820-0371 8 IC:TIL HS TRIPLE 3-1NPT NAND GATE 01295 SN74S140N A4U72 1820-0371 8 IC:TIL HS TRIPLE 3-1NPT NAND GATE 01295 SN74H10N A4U73 1820-0371 1 C:TIL HS TRIPLE 3-1NPT NAND GATE 01295 SN74H10N A4U74 1820-0424 IC:TIL HS TRIPLE 3-1NPT NAND GATE 04713 SN74H04N A4U75 1820-0141 1C:TIL HS HEX INVERTER 04713 HC3001P A4U76 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-1NPT AND GATE 01295 SN74S1IN	A4U63 1	1820-0424		IC:TTL HS HEX INVERTER		
A4U66 1820-0685 1C:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE 01295 SN74\$10N 1820-0759 1 IC:TTL LOM-POWER 8-81T RECEIVER 28460 1820-0759 1C:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN74\$140N 1620-0371 1C:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N 1820-0424 IC:TTL HS TRIPLE 3-INPT NAND GATE 04713 SN74H04N 1820-0424 IC:TTL HS HEX INVERTER 04713 SN74H04N 1820-0141 1C:TTL UND 2-INPT AND GATE 04713 HC3001P 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 01295 SN74\$1IN	A4U64 1	1820-0724	1	1C:TTL DUAL 2-4 DECODER W/ENABLE		
A4U66 1820-0565 1 1C:TTL SCHOTTKY TRIPLE 3-1NPT NANO GATE 1820-0759 1 1C:TTL LOW-POWER 8-81T RECEIVER 28460 1820-0759 1 1C:TTL LOW-POWER 8-81T RECEIVER 01295 SN745140N 24U72 1820-0371 8 1C:TTL HS TRIPLE 3-1NPT NAND GATE 01295 SN745140N 24U73 1820-0371 1C:TTL HS TRIPLE 3-1NPT NAND GATE 01295 SN74H10N 24U74 1820-0424 1C:TTL HS TRIPLE 3-1NPT NAND GATE 04713 SN74H104N 24U75 1820-0141 1C:TTL OUDD 2-1NPT AND GATE 04713 HC3001P 24U76 1820-0686 1C:TIL SCHOTTKY TRIPLE 3-1NPT AND GATE 01295 SN74511N						SN74S114N
A4U68 1820-0697 1C:TTL DUAL 4-INPT LINE DRIVER 01295 SN745140N A4U72 1820-0371 8 IC:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N A4U73 1820-0371 1C:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N A4U74 1820-0424 IC:TTL HS HEX INVERTER 04713 SN74H04N A4U75 1820-0141 1C:TTL DUAL 2-INPT AND GATE 04713 HC3001P A4U76 1820-0686 IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE 01295 SN74SIIN			1	IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE		
A4U72 1820-0371 8 IC:TTL HS TRIPLE 3-INPT NAND GATE 01295 SN74H10N	A4U68 1	1820-0697		1C:TTL DUAL 4-INPT LINE DRIVER	01295	
A4U74 1820-0424 IC:TTL HS HEX INVERTER 04713 SN74H04N A4U75 1820-0141 1C:TTL OUAD 2-INPT AND GATE 04713 MC3001P A4U76 1820-0686 IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE 01255 SN74SIIN	A4U72 1	1820-0371	8	IC:TTL HS TRIPLE 3-INPT NAND GATE		
A4U74 1820-0424 IC:TTL HS HEX INVERTER 04713 SN74H04N A4U75 1820-0141 1C:TTL OLAD 2-INPT AND GATE 04713 HC3001P A4U76 1820-0686 IC:TIL SCHOTTKY TRIPLE 3-INPT AND GATE 01255 SN74SIIN						SN74H1 ON
A4U76 1820-0686 IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE 01295 SN74SIIN					04713	SN74H04N
	A4U76 1	1820-0686				
	A4U77 1	1820-0685		1C:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE		

Table 2-4. Skip and Special Field (SSF) PCA (A4), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4U78 A4U82 A4U83 A4U84 A4U85	1820-0681 1820-0615 1820-0615 1820-0615 1820-0615	4	IC:TTL QUAD 2-INPT NAND GATE IC:TTL 8-INPT HULTIPLEXER W/CDM.ENA8LE IC:TTL 8-INPT MULTIPLEXER W/CDM.ENA8LE IC:TTL 8-INPT MULTIPLEXER W/COH.ENA8LE IC:TTL 8-INPT HULTIPLEXER W/COH.ENA8LE	01295 04713 04713 04713 04713	SN74SOON FAIR 9312 FAIR 9312 FAIR 9312 FAIR 9312
A4U86 A4U87 A4U88 A4U92 A4U93	1820-0690 1820-0697 1820-0690 1820-0205 1820-0681	2	IC:TTL SCHDTTKY DUAL 4-INPT NANO 8UFFER IC:TTL DUAL 4-INPT LINE CRIVER IC:TTL SCHUTTKY DUAL 4-INPT NAND 8UFFER IC:TTL QUAQ 2-INPT DR GATE IC:TTL QUAD 2-INPT NANO GATE	01295 01295 01295 28480 01295	SN 74 S40 N SN 74 S1 40 N SN 74 S40 N I 820 - 02 05 SN 74 S00 N
A4U94 A4U95 A4U96 A4U102 A4U103	1820-0683 1820-0374 1820-0683 1820-0691 1820-0370	2 1 1	IC:TTL SCHDTTKY HEX INVERTER IC:TTL HS OUAL 4-INPT AND GATE IC:TTL SCHOTTKY HEX INVERTER IC:TTL SCHOTTKY 4 W(4-2-3-2)INPT IC:TTL HS QUAD 2-INPT NAND GATE	01295 01295 01295 01295 01295	SN74504N SN74H21N SN74504N SN74564N SN74H00N
A4U104 A4U105 A4U106 A4U107 A4U112	1820-0370 1820-0370 1820-0370 1820-0370 1820-0739		IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL HI-SPEED J-K F/F	01295 01295 01295 01295 01295	SN 74H00N SN 74H00N SN 74H00N SN 74H00N SN 74H101N
A4U113 A4U114 A4U115 A4U116 A4U117	1820-0739 1820-0739 1820-0739 1820-0739 1820-0739		IC:TTL HI-SPEED J-K F/F IC:TTL HI-SPEED J-K F/F IC:TTL HI-SPEED J-K F/F IC:TTL HI-SPEED J-K F/F IC:TTL DUAL J-K F/F EDGE TRIGGERED	D1295 01295 D1295 01295 01295	SN 74H1 01N SN 74H101N SN 74H101N SN 74H101N SN 74S114N
A4U118 A4U122 A4U123 A4U124 A4U125	1820-0373 1820-0370 1820-0371 1820-0371 1820-0371	2	IC:TTL HS OUAL 4-INPT NAND GATE IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS TRIPLE 3-INPT NAND GATE	01295 01295 01295 01295 01295	SN 74H2ON SN 74H0ON SN 74H1ON SN 74H1ON SN 74H1ON
A4U126 A4U127 A4U128 A4U135 A4U134	1820-0371 1820-0373 1820-0681 1820-0696 1820-0141		IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS DUAL 4-INPT NANO GATE IC:TTL DUAO 2-INPT NAND GATE IC:TTL DUAL J-K F/F EDGE TRIGGEREO IC:TTL DUAD 2-INPT AND GATE	01295 01295 01295 01295 01295 04713	SN 74H1 ON SN 74H2 ON SN 74 SOON SN 74 S11 4N MC 30 O1 P
A4U135 A4U136 A4U137 A4U143 A4U144	1820-0424 1820-0424 1820-0424 1820-0515 1820-0608	4	IC:TTL HS HEX INVERTER IC:TTL HS HEX INVERTER IC:TTL HS HEX INVERTER IC:TTL DUAL RE-TRIG/RE-SET MOND-MULTI IC:TTL D OF DECODER W/ENABLE	04713 04713 04713 04713 07263 04713	SN74H04N SN74H04N SN74H04N U78960259X HC4006P
A4U145 A4U146 A4U147 A4U154 A4U155	1820-0608 1820-0608 1820-0608 1820-0372 1820-0376		IC:TTL 1 DF DECDDER W/ENABLE IC:TTL I OF OECDDER W/ENABLE IC:TTL 1 DF DECDDER W/ENABLE IC:TTL TRIPLE 3-INPT ANO GATE IC:TTL HS OUAL 4-INPT NAND BUFFER	04713 04713 04713 28480 01295	MC 4006P HC 4006P MC 4006P 18 20-0372 SN 74H4 0N
A4U156 A4U157 A4U164 A4U165 A4W1	1820-0371 1820-0371 1820-0239 1820-0375 8159-0005	1	IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL QUAD 2-INPT NOR GATE IC:TTL HS 8-INPT NAND GATE JUMPER WIRE	01295 01295 28480 01295 28480	SN 74H10N SN 74H10N 18 20-02 39 SN 74H30N 8159-0005
A4XY1 A4Y1	I200-D199 04 I0-0 472	1	SOCKET:CRYSTAL CRYSTAL	91506 28480	8000-AG9 0410-0472

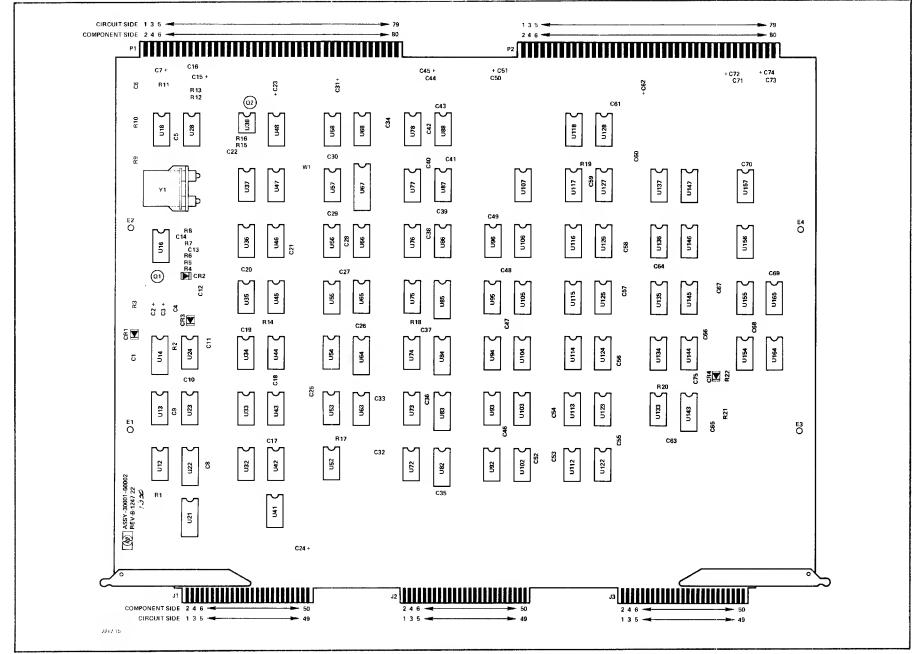


Figure 2-3. Skip and Special Field (SSF) PCA (A4), Parts Location Diagram

Table 2-5. Arithmetic and Logic Unit (ALU) PCA (A5), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5 A5C1 A5C2 A5C3 A5C4	30001-60003 0.50-0121 0150-0121 0150-0121 0150-0121	1 12	ARITHMETIC AND LOGICAL UNIT(ALU) PCA C:FXO CER 0-1 UF +80-20% 50VDCW C:FXO CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-1 UF +80-20% 50VDCW C:FXO CER 0-1 UF +80-20% 50VDCW	28480 56289 56289 56289 56289	30001-60003 5C508IS-CML 5C508IS-CML 5C508IS-CML 5C508IS-CML
A5C5 A5C6 A5C7 A5C8 A5C9	0150-0121 0160-2055 0160-2055 0160-2055 0160-0127	24 3	C:FXO CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100V0CW C:FXO CER 0-01 UF +80-20% 100V0CW C:FXO CER 0-01 UF +80-20% 100V0CW C:FXO CER 1-0 UF 20% 25V0CW	56289 56289 56289 56289 56289	5C508IS-CML C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH 5C13CS-CML
A5C10 A5C11 A5C12 A5C13 A5C14	0180-0229 0160-2055 0160-2055 0150-0121 0160-2055	3	C:FXO ELECT 33 UF 10% 10VCCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.1 UF +80-20% 50VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	284 80 56 289 56 289 56 289 56 289	0180-0229 C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C508LS-CML C023F101F103ZS22-CDH
A5C15 A5C16 A5C17 A5C18 A5C19	0.50-0121 0160-0127 0180-0229 0160-2055 0150-0121		C:FXO CER 0.1 UF +80-20% 50VDCW C:FXO CER 1.0 UF 20% 25VDCW C:FXD ELECT 33 UF 10% 10V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.1 UF +80-20% 50V0CW	56289 56289 28480 56289 56289	5C508IS-CML 5C13CS-CML 0180-0229 C023F101F103ZS22-CDH 5C508IS-CML
A5C20 A5C21 A5C22 A5C23 A5C24	0160-2055 0160-2055 0150-0121 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.1 UF +80-20% 50VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	562 89 562 89 562 89 562 89 562 89	C023F101F103ZS22-C0H C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-C0H Cu23F101F103ZS22-C0H
A5C25 A5C26 A5C27 A5C28 A5C29	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.1 UF +80-20% 50VOCM C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW	56 2 89 56 2 89 56 2 89 56 2 89 56 2 89	5C508IS-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0M
A5C30 A5C31 A5C32 A5C33 A5C34	0160-2055 0150-0121 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.1 UF +80-20% 50VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A5C35 A5C36 A5C37 A5C38 A5C39	0160-2055 0160-2055 0160-0127 0180-0229 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 1.0 UF 20% 25VDCW C:FXO ELECT 33 UF 10% 10VDCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 28480 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H 5C13CS-CML 0180-0229 C023F101F103ZS22-C0H
A5C40 A5C41 A5C42 A5R1 A5R2	0160-2055 0163-2055 0150-0121 0757-0280 0757-0280	8	C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.1 UF +80-20% 50VDCW R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W	562 89 562 89 562 89 284 80 284 80	C023F10IF103ZS22-C0H C023F10IF103ZS22-C0H 5C50BIS-CML 0757-0280 0757-0280
A5R3 A5R4 A5R5 A5R6 A5R7	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0260 0757-0280 0757-0280 0757-0280 0757-0280
A5R8 A5U13 A5U14 A5U15 A5U16	0757-0280 1820-0755 1820-0755 1820-0755 1820-0755	16	R:FXD MET FLM 1K CHM 1% 1/8W IC IC IC IC IC	28480 28480 28480 28480 28480	0757-0280 1820-0755 1820-0755 1820-0755 1820-0755
A5U17 A5U18 A5U23 A5U24 A5U25	1820-0755 1820-0367 1820-0755 1820-0755 1820-0755	8	IC IC:TTL 4-BIT UP-DOWN SHIFT REGISTER IC IC IC	28480 01295 28480 28480 28480	1820-0755 SN7495N 1820-0755 1820-0755 1820-0755
A5U26 A5U27 A5U28 A5U33 A5U34	1820-0755 1820-0755 1820-0367 1820-0371 1820-0373	5 6	IC IC IC:TTL 4-8IT UP-OOWN SHIFT REGISTER IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS OUAL 4-INPT NAND GATE	28480 28480 01295 01295 01295	1820-0755 1820-0755 SN7495N SN74H10N SN74H20N
A5U36 A5U37 A5U38 A5U43 A5U44	1820-0382 1820-0239 1820-0999 1820-0683 1820-0370	1 4 1 2 5	IC:TTL HS 2 M 4-1MPT AND OR INV GATE IC:TTL QUAD 2-INPT NOR GATE IC:ECL QUAD-NOR IT. SHE ALD FONCTION IC:TTL SCHOTTKY MEX INVERTER GENERATOR IC:TTL HS QUAD 2-INPT NAND GATE	01295 28480 28480 01295 01295	SN 74M55N 1820-0239 1820-0999 SN74-504N SN74H00N
A5U46 A5U47 A5U49 A5U53 A5U54	1820-0424 1820-0683 1820-0262 1820-0695 1820-0608	2 4 1 5	IC:TTL HS MEX INVERTER IC:TTL SCHOTTKY HEX INVERTER IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG. IC:TTL SMS DUAL J-K F/F M/PRESET IC:TTL 1 OF DECOGER W/ENABLE	04713 01295 12040 01295 04713	SN74H04N SN74S04N SD7936 SN74S113N MC4006P

Table 2-5. Arithmetic and Logic Unit (ALU) PCA (A5), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5U56 A5U57 A5U58 A5U64 A5U66	1820-0282 1820-0686 1820-0367 1820-0512 1820-0755	1 3 9	IC:TTL QUAG 2-INPT EXCL. OR GATE IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL 4-BIT UP-OOMN SHIFT REGISTER IC:TTL HS QUAL O F/F(35 MHZ MIN.) IC	01295 01295 01295 01295 01295 28480	SN7486N SN74511N SN7495N SN74H74N 1820-0755
A5 U67 A5U68 A5U69 A5U72 A5U73	18 2U-0837 18 20-0367 18 20-0262 18 20-0512 18 20-0372		IC:TTL OUAL 4-INPT NOR GATE IC:TTL 4-81T UP-OWN SHIFT REGISTER IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL TRIPLE 3-INPT AND GATE	18324 01295 12040 01295 28480	N8615A SN7495N S09936 SN74H74N 1820-0372
A 5U74 A 5U76 A 5U77 A 5U78 A 5 U79	1820-0686 1820-0755 1820-0688 1820-0606	2 3	IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC IC:TTL SCHOTTKY QUAL 4-INPT NANG GATE IC:TTL ARITH. LOGIC UNIT/FUNCTION GEN. IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE	01295 .28480 .01295 .01295 .01295	SN74S11N 1820-0755 SN74S20N SN74181N SN74S11N
A 5U81 A 5U83 A 5U84 A 5U86 A 5U87	1820-0846 1820-0374 1820-0239 1820-0755	1 2	IC:TTL OIGITAL OUAO BUFFER IC:TTL HS DUAL 4-INPT ANO GATE IC:TTL OUAO 2-INPT NOR GATE IC IC:TTL SCHOTTKY 4 W(4-2-3-2) INPT	12040 01295 28480 28480 01295	OM 8094N SN74H21N 1820-0239 1820-0755
A5U89 A5U91 A5U92 A5U93 A5U94	1820-0690 1820-0696 1820-0535 1820-0375 1820-0685	1 1 1 2 2	IC:TTL SCHOTTKY QUAL 4-INPT NANO BUFFER IC:TTL QUAL J-K F/F EDGE TRIGGEREO IC:TTL QUAL PERI-2-INPT ANO ORIVER IC:TTL HS B-INPT NANO GATE IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE	01295 01295 01295 01295 01295	SN 74 S64N SN 74 S40N SN 74 S1 14N SN 75451 P SN 74H30N SN 74S1 ON
A5U96 A5U97 A5U98 A5U101 A5U102	1820-0755 1820-0611 1820-0367 1820-0141 1820-0370	1	IC 1C:TTL LOOK-AHEAD CARRY GENERATOR IC:TTL 4-BIT UP-OUMN SHIFT REGISTER IC:TTL QUAD 2-INPT AND GATE IC:TTL HS QUAD 2-INPT NAND GATE	28480 01295 01295 04713 01295	1820-0755 \$N74182N \$N7495N MC3001P \$N74H00N
A5U103 A5U104 A5U105 A5U106 A5U107	1820-0373 1820-0837 1820-0512 1820-0755 1820-0837		1C:TTL HS QUAL 4-INPT NAND GATE IC:TTL QUAL 4-INPT NOR GATE IC:TTL HS DUAL O F/F(35 MHZ MIN.) IC IC:TTL QUAL 4-INPT NOR GATE	01295 18324 01295 28480 18324	SN 74H2ON N8815A SN 74H74N 1820-0755 N8815A
A5U106 A5U111 A5U112 A5U113 A5U114	1820-0367 1820-0379 1820-0688 1820-0371 1820-0512	3	IC:TTL 4-81T UP-OOMN SHIFT REGISTER IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL SCHOTTKY DUAL 4-INPT NAMO GATE IC:TTL HS TRIPLE 3-INPT NAMO GATE IC:TTL HS DUAL O F/F(35 MHZ MIN.)	01295 01295 01295 01295 01295	SN 7495N SN 74H52N SN 7452ON SN 74H1 ON SN 74H1 ON
A5U115 A5U116 A5U118 A5U121 A5U122	1820-0512 1820-0755 1820-0606 1820-0205 1820-0141	2	1C:TTL HS DUAL O F/F(35 MHZ MIN.) 1C 1C:TTL ARITH. LOGIC UNIT/FUNCTION GEN. 1C:TTL QUAQ 2-INPT OR GATE 1C:TTL QUAQ 2-INPT AND GATE	01295 28480 01295 28480 04713	SN 74H74N 1820-0755 SN 74181N 1820-0205 MC3001P
A5U123 A5U124 A5U125 A5U126 A5U129	1820-0371 1820-0512 1820-0512 1820-0373 1820-0262		IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS QUAL O F/F(35 MHZ MIN.) IC:TTL HS QUAL O F/F(35 MHZ MIN.) IC:TTL HS DUAL 4-INPT NANO GATE IC:TTL 8-81T PAR-IN SER-QUT SHIFT REG.	01295 01295 01295 01295 12040	SN 74H1 ON SN 74H7 4N SN 74H74N SN 74H2ON SO 9936
A5U131 A5U132 A5U133 A5U134 A5U135	1820-0370 1820-0205 1820-0608 1820-0512 1820-0512		1C:TTL HS QUAO 2-INPT NANO GATE 1C:TTL QUAO 2-INPT OR GATE 1C:TTL 1 OF OECOOER W/ENABLE 1C:TTL HS UUAL O F/F(35 MHZ MIN_) 1C:TTL HS QUAL O F/F(35 MHZ MIN_)	01295 28480 04713 01295 01295	SN74H00N 1820-J205 HC4006P SN74H74N SN74H74N
A5U136 A5U137 A5U138 A5U142 A5U143	1820-0373 1820-0373 1820-0367 1820-0685 1820-0606		IC:TTL HS DUAL 4-INPT NANO GATE IC:TTL HS DUAL 4-INPT NAND GATE IC:TTL 4-81T UP-OOMN SHIFT REGISTER IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE IC:TTL 1 OF DECODER W/ENABLE	01295 01295 01295 01295 04713	SN74H2 ON SN74H2 ON SN7495N SN7451 ON MC4006P
A5U144 A5U145 A5U146 A5U147 A5U148	1820-0837 1820-0239 1820-0373 1820-0371 1820-0367		IC:TTL DUAL 4-INPT NOR GATE 1C:TTL QUAO 2-INPT NOR GATE 1C:TTL HS QUAL 4-INPT NAND GATE 1C:TTL HS TRIPLE 3-INPT NAND GATE 1C:TTL 4-81T UP-OOMN SHIFT REGISTER	18324 28480 01295 01295 01295	N8815A 1820-0239 SN 74H20N SN 74H10N SN 7495N
A 50145 A50151 A50152 A50153 A50154	1820-0262 1820-0239 1820-0424 1820-0608 1820-0370		IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG. IC:TTL OUAD 2-INPT NOR GATE IC:TTL HS HEX INVERTER IC:TTL 1 OF OECOOER W/ENABLE IC:TTL HS OUAO 2-INPT NAND GATE	12040 28480 04713 04713 01295	S09936 1820-0239 SN74H04N MC4006P SN74H00N
A5U155 A5U156 A5U157 A5U157 A5U158 A5U159	1820-0384 1820-0371 1820-0372 1820-0506 1820-0375	1	IC:TTL HS TRIPLE 3-INPT EXPANDER IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL TRIPLE 3-INPT AND GATE IC:TTL ARITH- LOGIC UNIT/FUNCTION GEN- IC:TTL HS 8-INPT NANO GATE	01295 01295 28480 01295 01295	SN74H61N SN74H10N 1820-0372 SN74181N SN74H30N

Table 2-5. Arithmetic and Logic Unit (ALU) PCA (A5), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5U161 A5U162 A5U163 A5U164 A5U165	1820-0374 1820-0379 1820-0608 1820-0141 1820-0379	1	1C:TTL HS DUAL 4-INPT AND GATE 1C:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE 1C:TTL 1 OF DECDDER W/ENABLE 1C:TTL QUAO 2-INPT ANO GATE 1C:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE 1C:TTL HS DUAL 4-INPT NAND 8UFFER	01295 01295 04713 04713 01295	SN 74H21N SN 74H52N MC4006P MC3001P SN 74H52N SN 74H40N
A5U167	1820-0370		IC:TTL HS QUAD 2-INPT NAND GATE	01295	SN74HOON
*					
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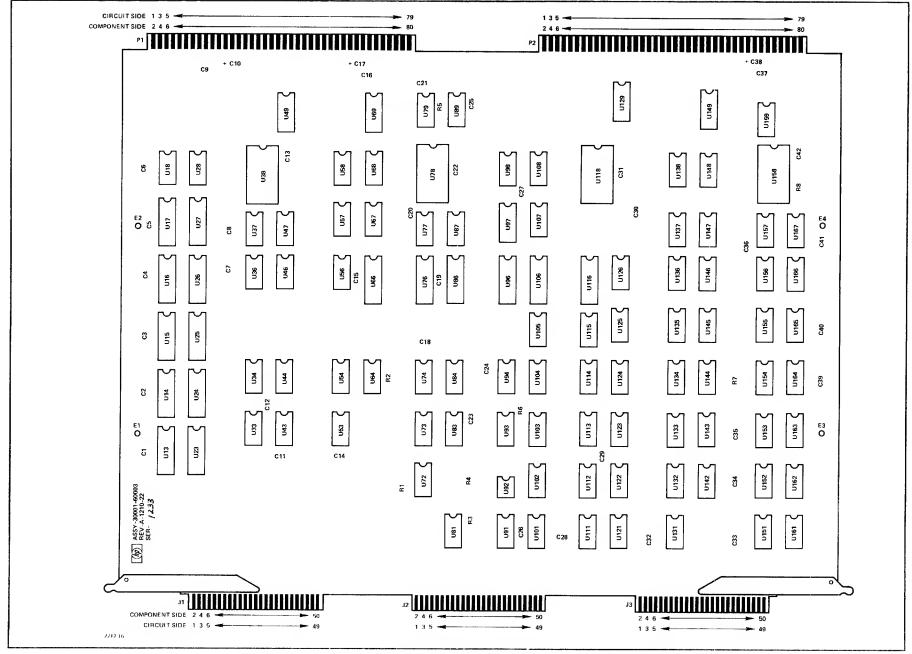


Figure 2-4. Arithmetic and Logic Unit (ALU) PCA (A5), Parts Location Diagram

Table 2-6. R-Bus PCA (A6), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6 A6C1 A6C2 A6C3 A6C4	30001-60004 0160-2055 0160-2055 0150-0121 0160-2055	1 31 9	R-BUS PCA C:FXD CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.1 UF +80-20% 50VOCW C:FXO CER 0.1 UF +80-20% 100VOCW	28480 56289 56289 56289 56289	30001-60004 C023F101F103ZS22-CDH C023F101F103ZS22-COH 5C508IS-CML C023F101F103ZS22-COH
A6C5 A6C6 A6C7 A6C8 A6C9	0160-2055 0160-2055 0160-2055 0160-2055 0160-0127	4	C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 5C13CS-CML
A6C10 A6C11 A6C12 A6C13 A6C14	0180-0229 0160-2055 0150-0121 0160-2055 0160-2055	4	C:FXD ELECT 33 UF 10% 10VOCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW	28480 56289 56289 56289 56289	0180-0229 C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A6C15 A6C16 A6C17 A6C18 A6C19	0180-0229 0160-0127 0160-2055 0160-2055 0150-0121		C:FXD ELECT 33 UF 10% 10V0CW C:FXO CER 1.0 UF 20% 25V0CW C:FXD CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50V0CW	28 4 80 562 89 56 2 89 56 2 89 56 2 89	0180-0229 5C13C5-CML C023F101F103Z522-COH C023F101F103Z522-COH 5C5081S-CML
A6C20 A6C21 A6C22 A6C23 A6C24	0160-2055 0160-2055 0150-0121 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 50VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A6C25 A6C26 A6C27 A6C28 A6C29	0160-2055 0160-2055 0160-2055 0160-2055 0180-0229		C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 28480	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 0180-0229
A6C30 A6C31 A6C32 A6C33 A6C34	0160-2055 0160-2055 0160-2055 0150-0121 0160-0127		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.1 UF +80-20% 50VDCW C:FXO CER 0.1 UF 20% 25VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 5C508IS-CML 5C13CS-CML
A6C35 A6C36 A6C37 A6C38 A6C39	0160-2055 0160-2055 0150-0121 0160-2055 0150-0121		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 50VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 50VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C508IS-CML C023F101F103ZS22-COH 5C508IS-CML
A6C40 A6C41 A6C42 A6C43 A6C44	0160-2055 0180-0229 0160-2055 0150-0121 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.1 UF +80-20% 50VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 28480 56289 56289 56289	C023F101F103ZS22-C0H 0180-0229 C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-C0H
A6C45 A6C46 A6C47 A6C48 A6R1	0150-0121 0160-2055 0160-2055 0160-0127 0757-0280	8	C:FXD CER 0.1 UF +80-20% 50VOCM C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCM C:FXO CER 1.0 UF 20% 25VOCM R:FXO MET FLM 1K CHM 1% 1/8W	56 289 56 289 56 289 56 289 28 480	5C508IS-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H 5C13CS-CML 0757-0280
A6R2 A6R3 A6R4 A6R5 A6R6	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W	28480 28480 28460 28480 28480	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280
A6R7 A6R8 A6U13 A6U14 A6U15	0757-0280 0757-0280 1820-0370 1820-0755 1820-0367	2 18 4	R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W IC:TTL HS QUAO 2-INPT NANO GATE IC IC:TTL 4-8IT UP-OOWN SHIFT REGISTER	28480 28480 01295 28480 01295	0757-0280 0757-0280 SN74H00N 1820-0755 SN7495N
A6U16 A6U17 A6U18 A6U19 A6U22	1820-1033 1820-1033 1820-1033 1820-1033 1820-0535	16 1	IC (0S17538) IC (DS17538) IC (0S17538) IC (0S17538) IC:TTL OUAL PERI-2-INPT AND DRIVER	28 480 28 480 28 480 28 480 01 295	1820-1033 1820-1033 1820-1033 1820-1033 SN75451P
A6U23 A6U24 A6U25 A6U26 A6U27	1820-0205 1820-0755 1820-0755 1820-0574 1820-0574	4 16	IC:TTL QUAD 2-INPT OR GATE IC IC IC IC:OIGITAL TIL QUAD O-F/F IC:OIGITAL TIL QUAD O-F/F	28480 28480 28480 12040 12040	1820-0205 1820-0755 1820-0755 0M8551N 0M8551N
A6U28 A6U29 A6U31	1820-0574 1820-0141 1820-0620 1820-0620	3 8	IC:DIGITAL TTL OUAD D-F/F IC:TTL OUAD 2-INPT AND GATE IC:TTL OUAL 4-INPT MULTIPLEXER IC:TTL OUAL 4-INPT MULTIPLEXER	12040 04713 01295 01295	0M8551N MC 3001P SN74153N

Table 2-6. R-Bus PCA (A6), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6U36 1 A6U3T 1 A6U38 1	1820-0755 1820-0262 1820-0739 1820-0739 1820-0739	4 5	IC IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG. IC:TTL HI-SPEED J-K F/F IC:TTL HI-SPEED J-K F/F IC:TTL HI-SPEED J-K F/F	28480 12040 01295 01295 01295	1620-0755 SD9936 SN T4H101N SN T4H101N SN T4H101N
A6U42 1 A6U44 1 A6U45 1	1820-0574 1820-0606 1820-0755 1820-0755 1820-0262	4	1C:01GITAL TTL QUAD Q-F/F IC:TTL ARITH, LOGIC UNIT/FUNCTION GEN. IC IC IC IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG.	12040 01255 28480 28480 12040	OM8551N SN74181N 1820-0755 1820-0755 S09936
A6U48 1 A6U49 1 A6U51 1	1820-0847 1820-0739 1820-0739 1820-0620 1820-0620	2	IC:TTL OUAL CARRY/SAVE FULL ADDER IC:TTL HI-SPEED J-K F/F IC:TTL HI-SPEED J-K F/F IC:TTL OUAL 4-INPT MULTIPLEXER IC:TTL OUAL 4-INPT MULTIPLEXER	01295 01295 01295 01295 01295	74H183N SN 74H101N SN 74H101N SN 74H153N SN 74153N
A6U56 1 A6U5T 1 A6U58 1	1820-036T 1820-1033 1820-1033 1820-1033 1820-1033		IC:TTL 4-8IT UP-OOWN SHIFT REGISTER IC (OS17538) IC (OS17538) IC (OS17538) IC (OS17538)	01295 28480 28480 28480 28480	SNT495N 1820-1033 1820-1033 1820-1033 1820-1033
A6U62 1 A6U65 1 A6U66 1	1820-05T4 1820-0606 1820-0T55 1820-05T4 1820-0574		IC:DIGITAL TTL QUAD O-F/F IC:TTL ARITH. LOGIC UNIT/FUNCTION GEN. IC IC:OIGITAL TTL QUAD D-F/F IC:OIGITAL TTL QUAD D-F/F	12040 01295 28480 12040 12040	OH8551N SN74181N 1820-0T55 OH8551N DH8551N
A6U69 1 A6U71 1 A6U72 1	1820~0574 1820~0686 1820~0608 1820~0239 1820~0384	4 1 4	IC:OIGITAL TTL QUAO D-F/F IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE IC:TTL 1 OF OECOOER W/ENABLE IC:TTL QUAO 2-INPT NOR GATE IC:TTL OUAO 2-INPT EXPANOER	120 40 012 95 04 7 13 28 4 80 012 95	OM8551N SN74S11N MC4006P 1820-0239 SN74H61N
A6U76 1 A6U77 1 A6U78 1	1820-03T9 1820-0998 1820-0998 1820-0998 1820-0998	2	IC:TTL HS 4W 2-2-2-3 1NPT ANO/OR GATE IC IC IC IC	01295 01295 01295 01295 01295	SN74H52N SN74S153H SN74S153H SN74S153H SN74S153H
A6U82 1 A6U84 1 A6U85 1	1820~0141 1820~0611 1820~084T 1820~03T9	1	IC:TTL OUAO 2-INPT ANO GATE 1C:TTL LOOK-AHEAO CARRY GENERATOR 1C:TTL OUAL CARRY/SAVE FULL AOOER 1C:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE 1C:TTL HS HEX INVERTER	04T13 01295 01295 01295 01295 04T13	MC 3001P SN 74 182N T4H183N SN T4H52N SN T4H04N
A6U88 1 A6U89 1 A6U91 1	1820-0140 1820-0205 1820-0724 1820-0370 1820-0376	1 3	IC:TTL OUAL 4-INPT AND SUFFER IC:TTL OUAD 2-INPT OR GATE IC:TTL OUAL 2-4 OECODER W/ENABLE IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL HS QUAD 4-INPT NAND BUFFER	04T13 28480 04T13 01295 01295	MC 3026P 1820-0205 MC 4007P SN 74 H00N SN 74 H40N
A6U95 1 A6U96 1 A6U97 1	1.820-0512 1.820-083T 1.820-0724 1.820-0141 1.820-0690	1 3	IC:TTL HS QUAL Q F/F(35 MHZ MIN.) IC:TTL QUAL 4-INPT NOR GATE IC:TTL QUAL 2-4 QECQUER W/ENABLE IC:TTL QUAQ 2-INPT ANO GATE IC:TTL SCHOTTKY QUAL 4-INPT NANO BUFFER	01295 18324 04 T13 04 713 01295	SN T4HT4N N8 81 5A MC 4007P MC 3001P SN T4 S40N
A6U101 1 A6U102 1 A6U104 1	1820-0755 1820-0205 1820-083 T 1820-0686 1820-0686		IC IC:TTL OUAO 2-INPT OR GATE IC:TTL OUAO 2-INPT OR GATE IC:TTL OUAL 4-INPT NOR GATE IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE	28480 28480 18324 01295 01295	1820-0755 1820-0205 N8815A SNT4S1IN SNT4S1IN
A6U107 1 A6U108 1 A6U109 1	.820-0205 .820-0374 .820-0239 .820-0124 .820-0620	2	IC:TTL QUAO 2-INPT OR GATE IC:TTL HS QUAL 4-INPT ANO GATE IC:TTL QUAO 2-INPT NOR GATE IC:TTL QUAL 2-4 OECOGER W/ENABLE IC:TTL QUAL 4-INPT MULTIPLEXER	28480 01295 28480 04713 01295	1820-0205 SN74H21N 1820-0239 MC400TP SN74153N
A6U114 1 A6U115 1 A6U116 1	.820-0620 .820-0755 .820-0367 .820-0574 .820-0574		IC:TTL OUAL 4-INPT MULTIPLEXER IC IC:TTL 4-8IT UP-OOWN SHIFT REGISTER IC:OIGITAL TIL QUAD D-F/F IC:OIGITAL TIL QUAO 0-F/F	01295 28480 01295 12040 12040	SNT4153N 1820-0T55 SNT495N 0M8551N 0M8551N
A6U119 1 A6U121 1 A6U122 1	.820-0574 .820-0424 .820-0574 .820-0606 .820-0755		IC:OIGITAL TTL OUAD D-F/F IC:TTL HS HEX INVERTER IC:OIGITAL TTL QUAD D-F/F IC:TTL ARITH. LOGIC UNIT/FUNCTION GEN. IC	12040 04713 12040 01295 28480	OM8551N SN74H04N OM8551N SN74181N 1820-0755
A6U126 1 A6U127 1 A6U128 1	820-0755 820-1033 820-1033 820-1033 820-1033		IC IC (DS17538) IC (DS17538) IC (DS17538) IC (DS17538)	28480 28480 28480 28480 28480 28480	1820-0755 1820-1033 1820-1033 1820-1033 1820-1033

Table 2-6. R-Bus PCA (A6), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6U131 A6U132 A6U135 A6U136 A6U137	1820-0239 1820-0374 1820-0755 1820-0262 1820-0755		IC:TTL QUAD 2-INPT NOR GATE IC:TTL HS QUAL 4-INPT ANC GATE IC IC 1C:TTL 8-8IT PAR-IN SER-GUT SHIFT REG. IC	28480 01295 28480 12040 28480	1820-0239 SN 74421N 1820-0755 S09936 1820-0755
A6U138 A6U139 A6U141 A6U142 A6U144	1820-0372 1820-0846 1820-0371 1820-0424 1820-0755	I 1 1	IC:TTL TRIPLE 3-INPT AND GATE IC:TTL OIGITAL QUAD BUFFER 1C:TTL HS TRIPLE 3-INPT NANO GATE 1C:TTL HS HEX INVERTER 1C	28480 12040 01295 04713 28480	1820-0372 0M 8094N SN74H10N SN74H04N 1820-0755
A6U145 A6U146 A6U147 A6U148 A6U149	18 20-0 755 18 20-0 262 18 20-0 68 6 18 20-0 23 9 18 20-0 83 7		1C 1C:TTL 8-8IT PAR-IN SER-OUT SHIFT REG. IC:TTL SCHOTTKY TRIPLE 3-IMPT AND GATE IC:TTL QUAO 2-IMPT NOR GATE 1C:TTL QUAO 4-IMPT NOR GATE	28480 12040 01295 28480 18324	1820-0755 \$09936 \$N74\$11N 1820-0239 N8815A
A6U151 A6U152 A6U154 A6U155 A6U156	1820-0620 1820-0620 1820-0755 1820-0367 1820-0574		IC:TTL OUAL 4-1NPT MULTIPLEXER 1C:TTL OUAL 4-1NPT MULTIPLEXER IC IC:TTL 4-81T UP-OOWN SHIFT REGISTER IC:OIGITAL TTL QUAD 0-F/F	01295 01295 28480 01295 12040	SN74153N SN74153N 1820-0755 SN7495N 0M8551N
A6U157 A6U15E A6U159 A6U161 A6U162	1820-0574 1820-0574 1820-0755 1820-0574 1820-0606		IC:01G1TAL TTL QUAD D-F/F 1C:01G1TAL TTL QUAD D-F/F IC IC:01G1TAL TTL QUAD 0-F/F 1C:TTL AR1TH. LOGIC UNIT/FUNCTION GEN.	12040 12040 28480 12040 01295	OM8551N OM8551N 1820-0755 DM8551N SN74181N
A6U166 A6U167 A6U168 A6U169	18 20-10 33 18 20-10 33 18 20-10 33 18 20-10 33		1C (0517538) IC (0517538) 1C (0517538) IC (0517538)	28480 28480 28480 28480	1820-1035 1820-1033 1820-1033 1820-1033

CIRCUIT SIDE 1 3 5 COMPONENT SIDE 2 4 6



C10 + C41 C29 + N29 049 U119 C35 U129 620 89 E 0149 62 63 660 0139 C43 650 0169 3 U128 N28 89 88 860 U108 1118 U138 0148 018 820 0.158 U168 147 133 1905 127 187 76N U147 057 720 110 **190** 1110 1210 157 1910 1137 0136 0116 9<u>4</u> 0.106 0126 99 9510 5 950 920 96 5 0166 880 C1 25 0105 0115 550 52 **U45** 990 **S**65 0155 0135 0145 0125 E2 O U154 CA5 U104 C32 C33 85 24 D98 U124 U114 114 4 38 144 C22 C12 C18 C23 C31 C39 \ \n22 (N) ASSY-30001-60004 O <u>m</u> REV .A.1247-22 SER-C21 S 760 U112 U132 **U42** U62 U142 U32 **U\$**2 U152 5 160 1010 1131 131 <u>§</u> 1110 U121 143 US1 190 141 U151 1910 COMPONENT SIDE 2 4 6 -CIRCUIT SIDE 1 3 5 -2212-17 Figure 2-5. R-Bus PCA (A6), Parts Location Diagram

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Table 2-7. S-Bus PCA (A7) Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7 A7C1 A7C2 A7C3 A7C4	30001-60005 0160-2055 0150-0121 0160-2055 0160-2055	1 24 4	S-BUS PCA C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW	28480 56289 56289 56289 56289	30001-60005 C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A7C5 A7C6 A7C7 A7C8 A7C9	0160-2055 0160-0127 0180-0229 0160-2055 0160-2055	6 5	C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 1.0 UF 20% 25VOCW C:FXD ELECT 33 UF 10% 10VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56 289 562 89 28 480 56 289 56 289	C023F101F103ZS22-C0H 5C13CS-CML 0180-0229 C023F101F103ZS22-C0H C023F101F103ZS22-CDH
A7C10 A7C11 A7C12 A7C13 A7C14	0160-2055 0160-0127 0160-0127 0160-2055 0160-0127		C:FXD CER 0-D1 UF +80-20% 100V0CW C:FXD CER 1-0 UF 20% 25VDCW C:FXD CER 1-0 UF 20% 25VOCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 1-0 UF 20% 25VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-COH 5C13CS-CML 5C13CS-CML 5C13CS-CML C023F101F103ZS22-CDH 5C13CS-CML
A7C15 A7C16 A7C17 A7C18 A7C19	0180-0229 0160-2055 0180-0229 0160-2055 0160-2055		C:FXD ELECT 33 UF 10% 10V0CM C:FXO CER 0.01 UF +80-20% 100VDCM C:FXD ELECT 33 UF 10% 10VDCM C:FXD CER 0.01 UF +80-20% 100VDCM C:FXD CER 0.01 UF +80-20% 100VDCW	28 480 562 89 28 480 56 289 56 289	0180-0229 C023F101F103ZS22-C0H 0180-0229 C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A7C20 A7C21 A7C22 A7C23 A7C24	0150-0121 0160-2055 0160-2055 0160-2055 0150-0121		C:FX0 CER 0.1 UF +80-20% 50VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW	56289 56289 56289 56289 56289	5C5081S-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-CDH 5C5081S-CML
A7C25 A7C26 A7C27 A7C28 A7C29	0160-2055 0160-2055 0160-2055 0150-0121 0160-0127		C:FXO CER 0.01 UF +80-2D\$ 100VDCW C:FXO CER 0.01 UF +80-2D\$ 100VDCW C:FXO CER 0.01 UF +80-2D\$ 100VDCW C:FXD CER 0.1 UF +80-2D\$ 50VDCW C:FXO CER 1.0 UF 20\$ 25VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C50BLS-CML 5C13CS-CML
A7C30 A7C31 A7C32 A7C33 A7C34	0160-2055 0160-2055 0160-2055 0160-0127 0160-2055		C:FXD CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 1.0 UF 20% 25V0CW C:FXO CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-C0H 5C13CS-CML C023F101F103ZS22-CDH
A7C35 A7C36 A7C37 A7C38 A7C39	0180-0229 0160-2055 0160-2055 0160-2055 0180-0229		C=FXD ELECT 33 UF 10% 10V0CM C=FXD CER 0-01 UF +80-20% 100V0CM C=FXD CER 0-01 UF +80-20% 100V0CM C=FXD CER 0-01 UF +80-20% 100V0CM C=FXD ELECT 33 UF 10% 10V0CM	28480 56289 56289 56289 28480	0180-0229 C023F101F103Z522-C0H C023F101F103Z522-C0H C023F101F103Z522-C0H 0180-0229
A7R1 A7R2 A7R3 A7R4 A7R5	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280	7	R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280
A7R6 A7R7 A7S2 A7S3 A7S4	0757-0280 0757-0280 3100-2687 3100-2687 3100-2687		R:FXD MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W SWITCH:RCTARY SP5T 6 POSITION SWITCH:RCTARY SP5T 6 POSITIUN SWITCH:RCTARY SP5T 6 PUSITION	28480 28480 28480 28480 28480	0757-0280 0757-0280 3100-2687 3100-2687 3100-2687
A7S5 A7S6 A7U13 A7U14 A7U16	3100-2687 3100-2687 1820-0685 1820-0608 1820-0755	3 3 14	SWITCH:ROTARY SP5T 6 POSITION SWITCH:ROTARY SP5T 6 POSITION IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE IC:TTL 1 OF DECODER W/ENA8LE IC	28480 28480 01295 04713 28480	3100-2687 3100-2687 SN74510N MC4006P 1820-0755
A7U17 A7U18 A7U19 A7U21 A7U22	1820-0574 1820-0574 1820-0755 1820-0375 1820-0685	36 4	IC:01G1TAL TTL OUAD 0-F/F IC:DIGITAL TTL OUAD D-F/F IC IC:TTL HS 8-INPT NANO GATE IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE	12040 12040 28480 01295 01295	OM8551N DM8551N 1820-0755 SN744130N SN74S10N
A7U23 A7U24 A7U26 A7U27 A7U28	1820-0685 1820-0683 1820-0755 1820-0755 1820-0716	1	IC:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE IC:TTL SCHOTTKY HEX INVERTER IC IC IC:TTL SYNC PRESET 4-8IT BINARY COUNTER	01295 01295 28480 28480 01295	SN74S10N SN74S04N 1820-0755 1820-0755 SN74161N
A7U29 A7U31 A7U32 A7U33 A7U34	1820-0367 1820-0375 1820-0846 1820-0574 1820-0608	6	IC:TTL 4-BIT UP-OOMN SHIFT REGISTER IC:TTL HS 8-INPT NAND GATE IC:TTL OIGITAL OUAD BUFFER IC:OIGITAL TIL OUAD D-F/F IC:TTL 1 OF OECODER W/ENABLE	01 295 01 295 120 40 120 40 047 13	SN7495N SN74H30N OM 8094N OM8551N MC4006P
A7U35 A7U36 A7U37 A7U38 A7U39	1820-0574 1820-0574 1820-0574 1820-0842 1820-0755	2	IC:OIGITAL TTL OUAD O-F/F IC:OIGITAL TTL OUAD O-F/F IC:OIGITAL TTL OUAD O-F/F IC:TTL 8-81T PARITY TREE IC	12040 12040 12040 04713 28480	DM8551N OM8551N OM8551N MC4008P 1820-0755

Table 2-7. S-Bus PCA (A7), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7U41 A7U42 A7U43 A7U44 A7U45	1820-0375 1820-0574 1820-0574 1820-0608 1820-1033	16	IC:TTL MS 8-INPT NANO GATE IC:DIGITAL TIL DUAD D-F/F IC:DIGITAL TIL DUAD 0-F/F IC:TTL 1 DF DECODER W/ENABLE IC (0S17538)	01295 12040 12040 04713 28480	SN74M30N OM8551N OM8551N MC4006P 1820-1033
A7U46 A7U47 A7U48 A7U49 A7U51	1820-1033 1820-1033 1820-1033 1820-0755 1820-0375		IC (0S17538) IC (0S17538) IC (0S17538) IC (0S17538) IC IC:TTL MS 8-INPT NAND GATE	28480 28480 28480 28480 01295	1820-1033 1820-1033 1820-1033 1820-1035 1820-0755 SN74M30N
A7U52 A7U53 A7U54 A7U55 A7U56	1820-0373 1820-0205 1820-0367 1820-0424 1820-0690	1 3 1 2	IC:TTL MS DUAL 4-INPT NAND GATE IC:TTL OUAD 2-INPT OR GATE IC:TTL 4-81T UP-OWN SMIFT REGISTER IC:TTL MS MEX INVERTER IC:TTL SCHOTTKY OUAL 4-INPT NANO 8UFFER	01295 28480 01295 04713 01295	SN74H2ON 1820-0205 SN7495N SN74M04N SN74S4ON
A7057 A7U58 A7U59 A7U61 A7U62	1820-0574 1820-0574 1820-0755 1820-0239 1820-0205	5	IC:OIGITAL TTL OUAD O-F/F IC:OIGITAL TTL OUAO O-F/F IC IC:TTL OUAO 2-INPT NOR GATE IC:TTL OUAO 2-INPT OR GATE	12 040 12 040 28 480 28 480 28 480	OM8551N OM8551N 1820-0755 1820-0239 1820-0205
A7U63 A7U65 A7U66 A7U68 A7U69	1820-0239 1820-0998 1820-0998 1820-0716 1820-0686	2	IC:TTL OUAO 2-INPT NOR GATE IC IC IC IC:TTL SYNC PRESET 4-81T 81NARY COUNTER IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE	28480 01295 01295 01295 01295	1820-0239 SN745153M SN745153M SN74161N SN74511N
A7U71 A7U72 A7U73 A7U75 A7U76	1820-0140 1820-0846 1620-0574 1820-0574 1620-0574	1	IC:TTL DUAL 4-INPT AND SUFFER IC:TTL DIGITAL DUAD SUFFER IC:DIGITAL TTL DUAD D-F/F IC:DIGITAL TTL DUAD O-F/F IC:DIGITAL TTL DUAD O-F/F	04713 12040 12040 12040 12040	MC 3026P OM 8094N OM8551N OM8551N OM8551N
A7U77 A7U78 A7U79 A7U81 A7U82	1820-0574 1820-0724 1820-0724 1820-0376 1820-0574	2 1	IC:OIGITAL TTL QUAO D-F/F IC:TTL QUAL 2-4 OECODER W/ENASLE IC:TTL QUAL 2-4 OECODER W/ENASLE IC:TTL HS QUAL 4-INPT NAND SUFFER IC:OIGITAL TTL QUAD D-F/F	12040 04713 04713 01295 12040	OM8551N MC 4007P MC 4007P SN74H40N OM8551N
A7U83 A7U85 A7U86 A7U87 A7U88	1820-0574 1820-1033 1820-1033 1820-1033 1820-1033			12040 28480 28480 28480 28480	OM8551N 1820-1033 1820-1033 1620-1033 1820-1033
A7U89 A7U91 A7U92 A7U93 A7U95	1820-0755 1820-0239 1820-0370 1820-0205 1820-0239	2	IC IC:TTL OUAO 2-INPT NOR GATE IC:TTL MS OUAO 2-INPT NANO GATE IC:TTL OUAO 2-INPT OR GATE IC:TTL OUAO 2-INPT NOR GATE	28480 28480 01295 28480 28480	1820-0755 1820-0239 SN74-MOON 1820-0205 1620-0239
A7U96 A7U97 A7U98 A7U99 A7U103	1820-0755 1620-0574 1820-0574 1820-0755 1820-0141	2	IC IC:DIGITAL TTL DUAD D-F/F IC:DIGITAL TTL DUAD D-F/F IC IC IC:TTL DUAD 2-INPT AND GATE	28480 12040 12040 28480 04713	1820-0755 0M8551N 0M8551N 1820-0755 MC 3001P
A7U106 A7U107 A7U108 A7U109 A7U111	1820-0755 1820-0755 1820-0716 1820-0367 1820-0846		IC IC IC:TTL SYNC PRESET 4-8IT 8INARY COUNTER IC:TTL 4-8IT UP-OOMN SHIFT REGISTER IC:TTL OIGITAL OUAD BUFFER	28480 28480 01295 01295 12040	1620-0755 1820-0755 SN74161N SN7495N OM 8094N
A7U112 A7U113 A7U115 A7U116 A7U117	1820-0846 1820-0574 1820-0574 1820-0574 1820-0574		IC:TTL DIGITAL DUAD SUFFER IC:DIGITAL TTL DUAD 0-F/F IC:DIGITAL TTL QUAD 0-F/F IC:DIGITAL TTL QUAD 0-F/F IC:DIGITAL TTL DUAD 0-F/F IC:DIGITAL TTL DUAD 0-F/F	12040 12040 12040 12040 12040	OM 8094N OM8551N OM8551N OM8551N OM8551N
A7U118 A7U119 A7U122 A7U123 A7U125	1820-0842 1820-0755 1820-0574 1820-0574 1820-1033		IC:TTL 8-8IT PARITY TREE IC IC:OIGITAL TTL OUAO O-F/F IC:OIGITAL TTL OUAO O-F/F IC (OS17538)	04713 28480 12040 12040 28480	MC4008P 1820-0755 0M8551N 0M8551N 1820-1033
A7U126 A7U127 A7U128 A7U129 A7U131	1820-1033 1820-1033 1820-1033 1820-0574 1820-0374	1	IC (OS17538) IC (OS17538) IC (OS17538) IC (OS17538) IC:OOIGITAL TIL DUAD O-F/F IC:TIL HS DUAL 4-INPT AND GATE	28480 28480 28480 12040 01295	1820-1033 1820-1033 1820-1033 088551N SN74M21N
A7U132 A7U133 A7U135 A7U136 A7U137	1820-0282 1820-0574 1820-0620 1820-0690 1820-0574	2 3	IC:TTL DUAD 2-INPT EXCL. OR GATE IC:DIGITAL TTL DUAD D-F/F IC:TTL DUAL 4-INPT MULTIPLEXER IC:TTL SCHOTTKY DUAL 4-INPT NAND 8UFFER IC:DIGITAL TTL DUAD 0-F/F	01295 12040 01295 01295 12040	SN7486N OM8551N SN74153N SN74S4ON OM8551N

Table 2-7. S-Bus PCA (A7), Replaceable Parts (Continued)

3000

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7U138 A7U139 A7U14I A7U142 A7U143	1820-0574 1820-0755 1820-0141 1820-0282 1820-0574		IC:DIGITAL TTL QUAD D-F/F IC IC:TTL QUAD 2-INPT AND GATE IC:TTL DUAD 2-INPT EXCL. OR GATE IC:DIGITAL TTL DUAD D-F/F	1204D 28480 D4713 01295 I2040	DM8551N 1820-0755 MC3001P SN7486N DM8551N
A7U145 A7U146 A7U148 A7U149 A7U151	1820-062D 1820-062D 1820-0716 1820-0367 1820-0846		IC:TTL DUAL 4-INPT MULTIPLEXER IC:TTL DUAL 4-INPT MULTIPLEXER IC:TTL SYNC PRESET 4-8IT 8INARY COUNTER IC:TTL 4-8IT UP-DOWN SHIFT REGISTER IC:TTL DIGITAL QUAD 8UFFER	D1295 D1295 O1295 D1295 12040	SN74153N SN74153N SN74161N SN7495N OM BD94N
A7U152 A7U153 A7U155 A7U156 A7U157	1820-0846 1820-0574 1820-0574 1820-0574 1820-0574		IC:TTL DIGITAL DUAD BUFFER IC:DIGITAL TTL QUAD D-F/F IC:DIGITAL TTL QUAD D-F/F IC:DIGITAL TTL QUAD D-F/F IC:DIGITAL TTL QUAD D-F/F	12D4D 12D40 12D40 12D40 12D4D 12D40	OM 8094N DM8551N OM8551N OM8551N DM8551N
A7U159 A7U162 A7U163 A7U164 A7U165	1820-0370 1820-0574 1820-0574 1820-0239 1820-1033		IC:TTL HS QUAD 2-INPT NAND GATE IC:DIGITAL TTL QUAD D-F/F IC:DIGITAL TTL QUAD D-F/F IC:TTL QUAD 2-INPT NGR GATE IC (DS17538)	D1295 1204D 12040 28480 2848D	SN74HDON DM8551N OM8551N 182D-0239 182D-1033
A7U166 A7U167 A7U168 A7U169	18 2D-10 33 18 2D-10 33 18 2D-10 33 18 2D-D574		IC (DS17538) IC (DS17538) IC (DS17538) IC:DIGITAL TTL QUAD D-F/F	28 48D 28 48D 28 48D 12 040	1820-1033 1820-1033 1820-1033 DM8551N
		- 1			

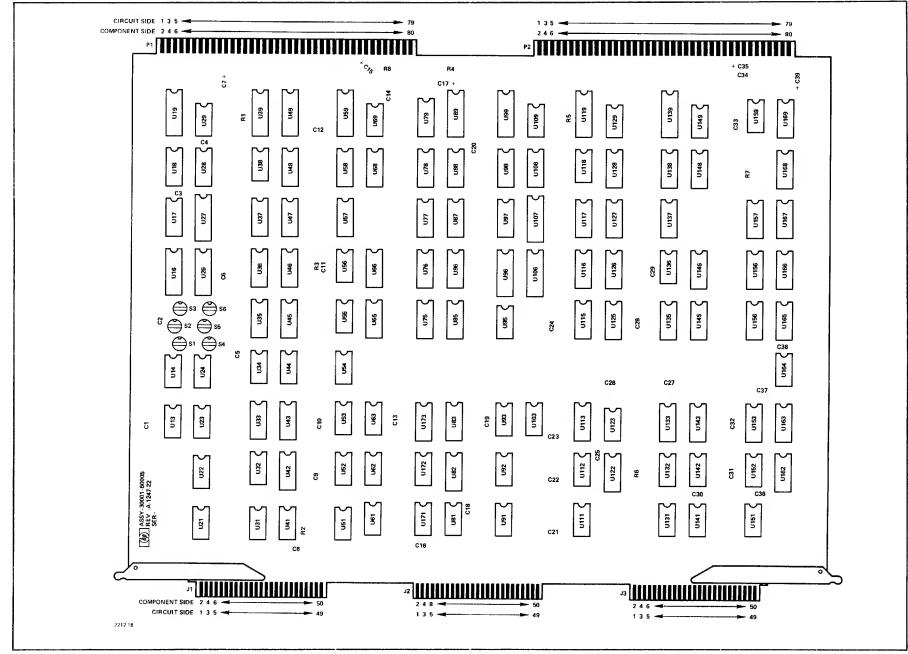


Figure 2-6. S-Bus PCA (A7), Parts Location Diagram

Table 2-8. Current Instruction Register (CIR) PCA (A8), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8 A8C1 A8C2 A8C3 A8C4	30001-60006 0160-2055 0160-2055 0160-2055 0160-2055	1 81	CURRENT INSTRUCTION REGISTER(C1R) PCA C:FXO CER 0.01 UF +80-20% 100VDCM C:FXO CER 0.01 UF +80-20% 100VDCM C:FXO CER 0.01 UF +80-20% 100VDCM C:FXD CER 0.01 UF +80-20% 100VDCM	28480 56289 56289 56289 56289	30001-60006 C023F101F103ZS2Z-CDH C023F101F103ZS2Z-CDH C023F101F103ZS2Z-COH C023F101F103ZS2Z-COH
A8C5 A8C6 A8C7 A8C8 A8C9	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH
A8C10 A8C11 A8C12 A8C13 A8C14	0160-2055 0160-2055 0150-0121 0180-0229 0150-0121	25 2	C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD ELECT 33 UF 10% 10VDCM C:FXD CER 0.1 UF +80-20% 50VDCW	56289 56289 56289 28480 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C5081S-CML 0180-0229 5C5081S-CML
A8C15 A8C16 A8C17 A8C18 A8C19	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-COH C023F101F103ZS22-CDH C023F101F103ZS22-COH
A8C20 A8C21 A8C22 A8C23 A8C24	0160-2055 0160-2055 0150-0121 0160-2055 0160-2055		C:FXD CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH 5C508IS-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A8C25 A8C26 A8C27 A8C28 A8C29	0150-0121 0150-0121 0150-0121 0150-0121 0150-0121		C:FXD CER 0-1 UF +80-2U% 50VDCW C:FXD CER 0-1 UF +80-20% 50VDCW	56289 56289 56289 56289 56289	5C508IS-CML 5C508IS-CML 5C508IS-CML 5C508IS-CML 5C508IS-CML 5C508IS-CML
A8C30 A8C31 A8C32 A8C33 A8C34	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C508IS-CML C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
A8C35 A8C36 A8C37 A8C38 A8C39	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	CO23F101F103ZS22-COH CO23F101F103ZS22-CDH CO23F101F103ZS22-CDH CO23F101F103ZS22-CDH CO23F101F103ZS22-CDH
A8C40 A8C41 A8C42 A8C43 A8C44	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56 289 56289 56289 56289 56289	5C 5081 S-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
A8C45 A8C46 A8C47 A8C48 A8C49	0160-2055 0160-2055 0150-0121 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C50815-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH
A8C50 A8C51 A8C52 A8C53 A8C54	0160-2055 0160-2055 0160-2055 0150-0121 0150-0121		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.1 UF +80-20% 50VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH 5C508IS-CML
	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C508IS-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
A8C61 A8C62 A8C63	0150-0121 0160-2055 0160-2055 0150-0121 0160-2055		C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C508IS-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C508IS-CML C023F101F103ZS22-CDH
A8C66 A8C67 A8C68	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C5081S-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-COH
A8C71 A8C72 A8C73	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055	:	C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C5081S-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH

Table 2-8. Current Instruction Register (CIR) PCA (A8), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8C75 A8C76 A8C77 A8C78 A8C79	0160-2055 0160-2055 0160-2055 0180-0229 0160-2055		C:FX0 CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VOCW C:FX0 ELECT 33 UF 10% 10VCCW C:FXD CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 28480 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH 0180-0229 C023F101F103ZS22-CDH
A8C80 A8C81 A8C82 A8C83 A8C84	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FX0 CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +8D-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-COH
A8C85 A8C86 A8C87 A8C88 A8C89	0160-2055 0150-0121 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH 5C508IS-CNL C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-COH
A8C90 A8C91 A8C92 A8C93 A8C94	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCM C:FXD CER 0.01 UF +80-20% 100VOCM C:FXO CER 0.01 UF +80-20% 100VOCM C:FXO CER 0.01 UF +80-20% 100VOCM C:FXO CER 0.01 UF +80-20% 100VOCM	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
A8C 95 A8C 96 A8C 97 A8C 98 A8C 99	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 1DDVDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW	56 289 56 289 56 289 56 289 56 289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH C023F101F103ZS22-COH
A8C100 A8C101 A8C102 A8R1 A8R2	0160-2055 0160-2055 0160-2055 1810-0030 1810-0030	3	C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW NETWDRK:7 RESISTORS 1K DHM 5% 0.15W EA NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA	56289 56289 56289 28480 28480	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-CDH 1810-0030
A8R3 A8R4 A8R5 A8U1	1810-0030 0757-0280 0757-0280 1816-0129	2	NETHORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXO MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W IC:PROM NOTE:	28480 28480 28480 28480	1810-0030 0757-0280 0757-0280 1816-0129
A8U11 A8U12 A8U13	1820-0370 1820-0696 1820-0688	7 4 4	OUANTITIES OF PRUMS LISTED ABOVE ARE THOSE REQUIRED TO MAKE ROMS. IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL DUAL J-K F/F EDGE TRIGGERED IC:TTL SCHOTTKY DUAL 4-INPT NAND GATE	01295 01295 01295 01295	SN74H00N SN74S114N SN74S20N
A8U14 A8U15 A8U16 A8U21 A8U22	1820-0371 1820-0372 1820-0374 1820-0691 1820-0372	10 4 6 1	IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HS DUAL 4-INPT AND GATE IC:TTL SCHOTTKY 4 W14-2-3-2) INPT IC:TTL TRIPLE 3-IMPT AND GATE	01295 28480 01295 01295 28480	SN 74H1 ON 1820-0372 SN 74H2 IN SN 74S64N 1820-0372
A8U23 A8U24 A8U25 A8U26 A8U27	1820-0696 1820-0380 1820-0205 1820-0370 1820-0696	1 2	IC:TTL DUAL J-K F/F EDGE TRIGGEREO IC:TTL HS 4M 2-2-2-3 INPT AND/DR INV IC:TTL DUAD 2-INPT OR GATE IC:TTL HS QUAD 2-INPT NANO GATF IC:TTL DUAL J-K F/F EDGE TRIGGERED	01295 01295 28480 01295 01295	SN74S114N SN74H53N 1820-0205 SN74H00N SN74S114N
A 8U 2 8 A 8U 2 9 A 8U 3 1 A 8U 3 2 A 8U 3 3	1823-0696 1820-0690 1820-0239 1820-0370 1820-0239	3 4	IC:TTL DUAL J-K F/F EDGE TRIGGERED IC:TTL SCHDTTKY DUAL 4-INPT NAND BUFFER IC:TTL OUAD 2-INPT NOR GATE IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL DUAO 2-INPT NOR GATE	01295 01295 28480 01295 28480	SN74S114N SN74S40N 1820-0239 SN74H00N 182D-0239
A8U34 A8U35 A8U36 A8U37 A8U38	1820-0141 1820-0372 1820-0382 1820-0141 1820-0695	5 1 2	IC:TTL OUAO 2-INPT ANO GATE IC:TTL TRIPLE 3-INPT ANO GATE IC:TTL HS 2 W 4-INPT ANO OR INV GATE IC:TTL OUAO 2-INPT ANO GATE IC:TTL SHS DUAL J-K F/F W/PRESET	04713 28480 01295 04713 01295	MC3001P 1820-0372 SN74H55N MC3001P SN74S113N
A8U39 A8U41 A8U42 A8U43 A8U44	1820-0690 1820-0375 1820-0424 1820-0846 1820-0755	4 2 2 12	IC:TTL SCHOTTKY DUAL 4-INPT NAND BUFFER IC:TTL HS 8-INPT NANO GATE IC:TTL HS HEX INVERTER IC:TTL OIGITAL OUAO BUFFER IC	01295 01295 04713 12040 28480	SN74S40N SN74H30N SN74H04N DM 8094N 1820-0755
A8U52 A8U53 A8U54 A8U56 A8U57	1820-0755 1820-0755 1820-0755 1820-0755 1820-0755		IC IC IC IC	28480 28480 28480 28480 28480	1820-0755 1820-0755 1820-0755 1820-0755 1820-0755
A8U59 A8U66 A8U67 A8U69 A8U71	1820-0686 1820-0262 1820-0262 1820-0685 1820-0574	1 4 1 5	IC:TTL SCHDTTKY TRIPLE 3-INPT AND GATE IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE IC:OIGITAL TTL QUAD 0-F/F	012 95 12 04 0 12 04 0 012 95 12 04 0	SN74S11 N SD9936 SD9936 SN74S1ON DM8551N

Table 2-8. Current Instruction Register (CIR) PCA (A8), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8U72 A8U73 A8U74 A8U75 A8U76	1820-0574 1820-0837 1820-0574 1820-0574 1820-0262	4	1C:01GITAL TTL OUAD O-F/F IC:TTL OUAL 4-1NPT NOR GATE IC:01GITAL TTL OUAD O-F/F IC:01GITAL TTL OUAD O-F/F IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG.	12040 18324 12040 12040 12040	OM8551N N8815A OM8551N OM8551N SO9936
A8U77 A8U79 A8U81 A8U82 A8U83	1820-0262 1820-0759 1820-0282 1820-0282 1820-0837	2 5	IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG. 1C:TTL LOW-POWER 8-8IT RECEIVER IC:TTL OUAD 2-INPT EXCL. OR GATE IC:TTL OUAD 2-INPT EXCL. OR GATE IC:TTL OUAL 4-INPT NOR GATE	12040 28480 01295 01295 18324	S09936 1820-0759 SN7486N SN7486N N8815A
A8U84 A8U85 A8U86 A8U87 A8U89	1820-0282 1820-0282 1820-0842 1820-0842 1820-0759	2	IC:TTL OUAO 2-INPT EXCL. OR GATE IC:TTL OUAO 2-INPT EXCL. OR GATE IC:TTL 8-81T PARITY TREE IC:TTL 8-81T PARITY TREE IC:TTL LOW-POWER 8-BIT RECEIVER	01295 01295 04713 04713 28480	SN7486N SN7486N MC4008P MC4008P 1820-0759
A8U91 A8U92 A8U93 A8U94 A8U95	1820-0301 1820-0301 1820-0374 1820-0301 1820-0301	8	IC:TTL OUAO 8I-STABLE O-LATCH IC:TTL QUAO BI-STABLE O-LATCH IC:TTL HS OUAL 4-INPT AND GATE IC:TTL OUAO 8I-STABLE O-LATCH IC:TTL OUAO 8I-STABLE O-LATCH	01295 01295 01295 01295 01295 01295	SN7475N SN7475N SN74H21N SN74H21N SN7475N
A8U96 A8U97 A8U98 A8U99 A8U101	1820-0688 1820-0683 1820-0681 1820-0141 1820-0301	1	1C:TTL SCHOTTKY OUAL 4-1NPT NANO GATE IC:TTL SCHOTTKY HEX INVERTER IC:TTL OUAO 2-INPT NAND GATE IC:TTL OUAO 2-INPT AND GATE IC:TTL OUAO 8I-STABLE O-LATCH	01295 01295 01295 01295 04713 01295	SN 74 SZ ON SN 74 SO4N SN 74 SOON MC 3001P SN 7475N
A8U102 A8U103 A8U104 A8U105 A8U106	1820-0301 1820-0375 1820-0301 1820-0301 1820-0688		IC:TTL QUAO 81-STABLE O-LATCH 1C:TTL HS 8-1NPT NANO GATE IC:TTL QUAO 81-STABLE O-LATCH 1C:TTL QUAO 81-STABLE O-LATCH 1C:TTL SCHOTTKY QUAL 4-1NPT NANO GATE	01295 01295 01295 01295 01295	SN7475N SN74H30N SN7475N SN7475N SN7475N
A8U107 A8U108 A8U105 A8U111 A8U112	1820-0688 1820-0690 1820-0695 1820-0282 1620-0371		IC:TTL SCHOTTKY OUAL 4-INPT NANO GATE IC:TTL SCHOTTKY DUAL 4-INPT NANO 8UFFER IC:TTL SHS OUAL J-K F/F W/PRESET IC:TTL OUAO 2-INPT EXCL. OR GATE IC:TTL HS TRIPLE 3-INPT NAND GATE	01295 01295 01295 01295 01295	SN74S2 ON SN74S4ON SN74S113N SN7486N SN74H1 ON
A8U113 A8U114 A8U116 A8U118 A8U119	1820-0376 1823-0755 1816-0072 1820-0755 1820-0755	2	IC:TTL HS OUAL 4-INPT NANC SUFFER IC IC:ROM 4 X 256 IC IC	01295 28480 28480 28480 28480	SN74H40N 1820-0755 1816-0072 1820-0755 1820-0755
A8U121 A8U122 A8U123 A8U124 A8U126	1820-0239 1820-0371 1820-0373 1820-0755 1816-0071	4	IC:TTL QUAO 2-INPT NOR GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS OUAL 4-INPT NAND GATE IC IC IC:ROM 4 X 256	28480 01295 01295 28480 28480	1820-0239 SN74H10N SN74H20N 1820-0755 1816-0071
A8U128 A8U129 A8U131 A8U132 A8U133	1820-0755 1820-0755 1820-0371 1820-0373 1820-0837		IC 1C IC:TTL HS TR1PLE 3-INPT NAND GATE IC:TTL HS OUAL 4-INPT NANO GATE IC:TTL OUAL 4-INPT NOR GATE	28480 28480 01295 01295 18324	1820-0755 1820-0755 SN74H10N SN74H20N N8815A
A8U134 A8U135 A8U136 A8U137 A8U138	1820-0375 1820-0375 1816-0070 1820-0846 1820-0424	3 1	1C:TTL HS 8-INPT NANO GATE 1C:TTL HS 4W 2-2-2-3 INPT ANG/OR GATE IC:ROM 4 X 256 1C:TTL OIGITAL OUAD 8UFFER 1C:TTL HS HEX INVERTER	01295 01295 28480 12040 04713	SN74H30N SN74H52N 1816-0070 OM 8094N SN74H04N
A8U139 A8U141 A8U142 A8U143 A8U144	1820-0837 1820-0371 1820-0205 1820-0370 1820-0371		IC:TTL OUAL 4-INPT NOR GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL OUAO 2-INPT OR GATE IC:TTL HS OUAO 2-INPT NANO GATE IC:TTL HS TRIPLE 3-INPT NANO GATE	18324 01295 28480 01295 01295	N8815A SN74H1 ON 1820-0205 SN74H0ON SN74H1ON
A8U145 A8U146 A8U147 A8U148 A8U149	1820-0379 1820-0370 1820-0239 1820-0374 1820-03141		IC:TTL HS 4W 2-2-2-3 1NPT AND/OR GATE IC:TTL HS OUAD 2-INPT NAND GATE IC:TTL OUAD 2-INPT NOR GATE IC:TTL HS OUAL 4-INPT AND GATE IC:TTL OUAD 2-INPT AND GATE	01295 01295 28480 01295 04713	SN 74H52N SN 74H00N 1820-0239 SN 74H21N MC 3001P
A8U159 A8U161 A8U162 A8U163 A8UI64	1820-0535 1820-0371 1820-0141 1820-0370 1820-0371	1	IC:TTL OUAL PERI-2-INPT AND ORIVER 1C:TTL HS TRIPLE 3-INPT NAND GATE 1C:TTL OUAD 2-INPT AND GATE 1C:TTL HS OUAD 2-INPT NANO GATE IC:TTL HS TRIPLE 3-INPT NAND GATE	01295 01295 04713 01295 01295	SN 75451P SN 74H10N MC 3001P SN 74H00N SN 74H10N
A8U165 A8U166 A8U167 A8U168 A8U169	1820-037 9 1820-0372 1820-0374 1820-0376 1820-0512	1	IC:TIL HS 4W 2-2-2-3 INPT ANO/OR GATE IC:TIL TRIPLE 3-1NPT ANO GATE IC:TIL HS OUAL 4-1NPT AND GATE IC:TIL HS OUAL 4-1NPT ANC 8UFFER IC:TIL HS DUAL 0 F/F(35 MHZ MIN.)	01295 28480 01295 01295 01295	SN74H52N 1820-0372 SN74H21N SN74H40N SN74H40N

Table 2-8. Current Instruction Register (CIR) PCA (A8), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Ωty	Description	Mfr Code	Mfr Part Number
A8U171 A8U172 A8U173 A8U174 A8U175	1820-0374 1820-0373 1820-0375 1820-0373 1820-0371		IC:TTL HS DUAL 4-INPT AND GATE IC:TTL HS OUAL 4-INPT NAND GATE IC:TTL HS B-INPT NAND GATE IC:TTL HS DUAL 4-INPT NAND GATE IC:TTL HS TRIPLE 3-INPT NAND GATE	01295 01295 01295 01295 01295	SN74H21N SN74H20N SN74H30N SN74H30N SN74H20N SN74H10N
A8U176 A8U177 A8U178 A8U179	1820-0371 1820-0374 1820-0370 1820-0574		IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS OUAL 4-INPT AND GATE IC:TTL HS QUAO 2-INPT NAND GATE IC:DIGITAL TTL QUAO 0-F/F	01295 01295 01295 12040	SN 74-H10N SN 74-H21N SN 74-H00N OM8551N
		1			

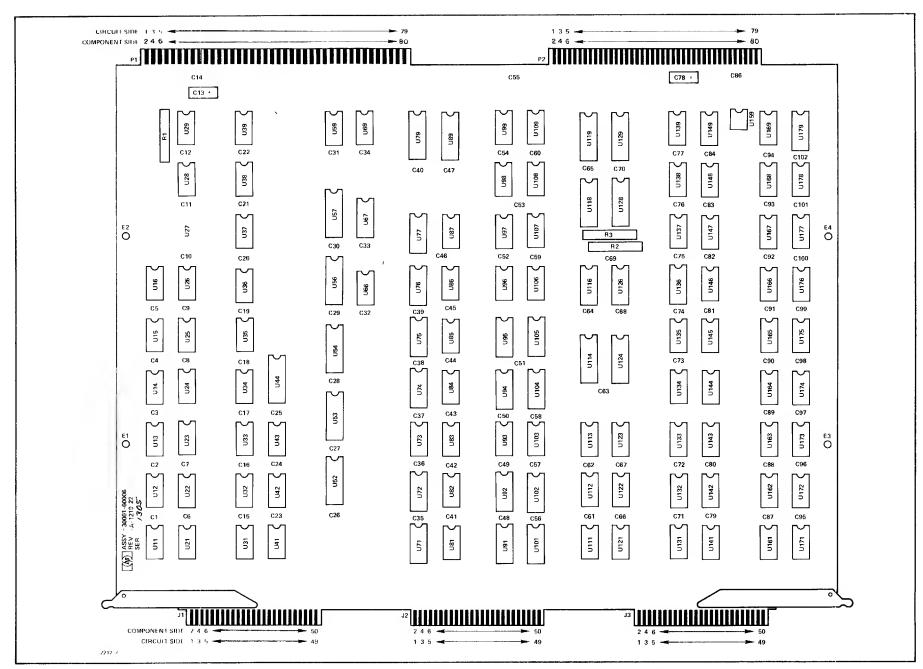


Figure 2-7. Current Instruction Register (CIR) PCA (A8), Parts Location Diagram

Table 2-9. Module Control Unit (MCU) PCA (A9), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9 A9C1 A9C2 A9C3 A9C4	30001-60007 0160-2055 0160-2055 0160-2055 0160-2055	1 56	MODULE CONTROL UNIT(MCU) PCA C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	28 480 56 289 56 289 56 289 56 289	30001-60007 C023F101F103ZS22-C0H C023F101F103ZS22-CUH C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A9C5 A9C6 A9C7 A9C8 A9C9	0160-2055 0460-2055 0160-2055 0180-0229 0160-2055	4	C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 28480 56289	C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-COH 0180-0229 C023F101F103ZS22-COH
A9C10 A9C11 A9C12 A9C13 A9C14	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56 289 562 89 562 89 562 89 562 89	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-COH
A9C16 A9C17 A9C18 A9C19 A9C20	0150-0121 0160-0161 0160-0161 0160-2055 0160-2055	13 2	C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD MY 0-01 UF 10% 200VDCW C:FXD MY 0-01 UF 10% 200VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C508IS-CML 192P10392-PTS 192P10392-PTS C029F101F103ZS22-C0H CU23F101F103ZS22-C0H
A9C21 A9C22 A9C23 A9C24 A9C25	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS2Z-CDH C023F101F103ZS2Z-COH C023F101F103ZS2Z-COH C023F101F103ZS2Z-COH C023F101F103ZS2Z-COH
A9C26 A9C27 A9C28 A9C29 A9C30	0160-2055 0150-0121 0160-2055 0150-0121 0160-0127	4	C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 1.0 UF 20% 25VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-CDH 5C508IS-CML 5C13CS-CML
A9C31 A9C32 A9C33 A9C34 A9C35	0160-2055 0160-2055 0150-0121 0160-0127 0160-0127		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VOCW C:FXO CER 1.0 UF 20% 25VOCW C:FXO CER 1.0 UF 20% 25VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH 5C508IS-CML 5C13CS-CML 5C13CS-CML
A9C36 A9C37 A9C38 A9C39 A9C40	0163-2055 0160-2055 0160-2055 0160-2055 0163-2055		C:FX0 CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FX0 CER J.01 UF +80-20% 100VOCW C:FX0 CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
A9C41 A9C42 A9C43 A9C44 A9C45	0160-2055 0160-2055 0150-0121 0180-0229 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD ELECT 33 UF 10% 10V0CW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 28480 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH 5C50B1S-CML 0180-0229 C023F101F103ZS22-C0H
A9C46 A9C47 A9C48 A9C49 A9C50	0150-0121 0180-0229 0160-2055 0150-0121 0160-2055		C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD ELECT 33 UF 10% 10VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 50VOCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 28480 56289 56289 56289	5C5081S-CML 0180-0229 C023F101F103ZS22-C0H 5C5081S-CML C023F101F103ZS22-C0H
A9C51 A9C52 A9C53 A9C54 A9C55	0163-2055 0160-2055 0160-2055 0150-0121 0150-0121		C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FXD CER 3.D1 UF +80-20% 100V0CW C:FXD CER 0.1 UF +80-20% 50V0CW C:FXD CER 0.1 UF +80-20% 50V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH 5C508IS-CML 5C508IS-CML
A9C56 A9C57 A9C58 A9C59 A9C60	0160-2055 0150-0121 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.1 UF +80-20% 50VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H 5C5081S-CML C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-C0H
A9C61 A9C62 A9C63 A9C64 A9C65	0160-2055 0160-2055 0160-2055 0160-2055 0150-2055		C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.1 UF +80-20% 50V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-C0H 5C50BIS-CML
A9C66 A9C67 A9C68 A9C69 A9C70	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FX0 CER 0.01 UF +8D-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +8D-20% 100V0CW C:FX0 CER 0.01 UF +8D-20% 100V0CW	562 89 562 89 562 89 562 89 562 89	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
A9C71 A9C72 A9C73 A9C74 A9C75	0150-0121 0160-2055 0160-2055 0160-2055		C:FXD CER 0-1 UF +80-20% 50VDCW C:FXO CER 0-01 UF +80-20% 100VOCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56 289 56289 56289 56289 56289	5C50815-CML C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H

Table 2-9. Module Control Unit (MCU) PCA (A9), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9C76 A9C77 A9C78 A9C79 A9C15	0160-2055 0160-2055 0160-0127 0180-0229 0150-0121		C:FXO CER 0.01 UF +80-2D% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 1.0 UF 20% 25VDCW C:FXD ELECT 33 UF 10% 10VDCW C:FXD CER 0.1 UF +80-2D% 50VDCW	56289 56289 56289 28480 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C13CS-CML 0180-0229 5C508IS-CML
A9R4 A9R5 A9R6 A9R7 A9R8	1810-0030 1810-0030 1810-0030 1810-0030 1810-0030	5	NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA	28480 28480 28480 28480 28480	1810-0030 1810-0030 1810-0030 1810-0030 1810-0030
A9U11 A9U12 A9U13 A9U14 A9U15	1820-0685 1820-0685 1820-0371 1820-0686 1820-0141	3 5 4 5	IC:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE IC:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE	01295 01295 01295 01295 01295 04713	SN74510N SN74510N SN74H10N SN74511N MC3001P
A9U16 A9U17 A9U18 A9U21 A9U22	1820-0846 1820-0846 1820-0846 1820-0844 1820-0696	5 1 15	IC:TTL DIGITAL QUAD SUFFER IC:TTL DIGITAL QUAD SUFFER IC:TTL DIGITAL QUAD BUFFER IC:TTL DUAL 3-INPT PULSE SHAPER IC:TTL DUAL J-K F/F EOGE TRIGGERED	12040 12040 12040 04713 01295	DM 8094N DM 8094N DM 8094N MC426P SN745114N
A9U23 A9U24 A9U25 A9U26 A9U27	1820-0696 1820-0681 1820-0141 1820-0739 1820-0574	3 1 9	IC:TIL DUAL J-K F/F EDGE TRIGGERED IC:TTL QUAD 2-INPT NAND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL HI-SPEED J-K F/F IC:DIGITAL TTL QUAD D-F/F	01295 01295 04713 01295 12040	SN74S114N SN74S00N MC3001P SN74H101N DM8551N
A9U28 A9U32 A9U42 A9U43 A9U44	1820-0755 1820-0141 1820-0371 1820-0696 1820-0424	5	IC IC:TTL QUAD 2-INPT AND GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL DUAL J-K F/F EDGE TRIGGERED IC:TTL HS HEX INVERTER	28480 04713 01295 01295 04713	1820-0755 MC3001P SN74H10N SN74S114N SN74H04N
A9U45 A9U46 A9U47 A9U48 A9U51	1820-0696 1820-0837 1820-0574 1820-0688 1820-0239	7 1 3	IC:TTL DUAL J-K F/F EOGE TRIGGEREO IC:TTL DUAL 4-INPT NDR GATE IC:DIGITAL TTL QUAD D-F/F IC:TTL SCHDTIKY DUAL 4-INPT NAND GATE IC:TTL QUAD 2-INPT NDR GATE	01295 18324 12040 01295 28480	SN74S114N N8815A OH8551N SN74S2ON 1820-0239
A9U52 A9U53 A9U54 A9U55 A9U57	1820-0205 1820-0141 1820-0691 1820-0691 1820-0574	3 5	IC:TTL QUAD 2-INPT DR GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL SCHOTTKY 4 W(4-2-3-2)INPT IC:TTL SCHOTTKY 4 W(4-2-3-2)INPT IC:TTL SCHOTTKY 4 W(4-2-3-2)INPT IC:DIGITAL TTL QUAD D-F/F	28480 04713 01295 01295 12040	1820-0205 HC3001P SN74564N SN74564N DM8551N
A9U58 A9U61 A9U62 A9U63 A9U64	1820-0686 1820-0424 1820-0512 1820-0696 1820-0374	1	IC:TTL SCHDTTKY TRIPLE 3-INPT AND GATE IC:TTL HS HEX INVERTER IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL DUAL J-K F/F EDGE TRIGGERED IC:TTL HS DUAL 4-INPT ANC GATE	01295 04713 01295 01295 01295	SN 74511N SN 74H04N SN 74H74N SN 745114N SN 74H21N
A9U65 A9U66 A9U68 A9U71 A9U72	1820-0759 1820-0690 1820-0686 1820-0608 1820-0696	4 5 1	IC:TTL LDM-PDMER 8-81T RECEIVER IC:TTL SCHOTTKY DUAL 4-INPT NAND 8UFFER IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL 1 OF DECODER W/ENA8LE IC:TTL DUAL J-K F/F EDGE TRIGGERED	28480 01295 01295 04713 01295	1820-0759 SN74S40N SN74S11N MC4006P SN74S114N
A9U73 A9U74 A9U75 A9U76 A9U77	1820-0239 1820-0371 1820-0755 1820-0690 1820-0690		IC:TTL OUAD 2-INPT NDR GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC IC:TTL SCHDTTKY DUAL 4-INPT NAND BUFFEK IC:TTL SCHDTTKY DUAL 4-INPT NAND BUFFER	28480 01295 28480 01295 01295	1820-0239 SN74H10N 1820-0755 SN74540N SN74540N
A9U78 A9U81 A9U82 A9U83 A9U84	1820-0681 1820-0683 1820-0696 1820-0617 1820-0574	2	IC:TTL QUAD 2-INPT NAND GATE 1C:TTL SCHDTTKY HEX INVERTER IC:TTL DUAL J-K F/F EDGE TRIGGERED IC:TTL QUAD 2-INPT EXCL. NDR GATE IC:DIGITAL TTL QUAD D-F/F	01295 01295 01295 04713 12040	SN 74500N SN 74504N SN 745114N MC 3022P DM8551N
A9U85 A9U86 A9U87 A9U88 A9U91	1820-0262 1820-0846 1820-0842 1820-0690 1820-0371	4 3	IC:TTL 8-8IT PAR-IN SER-DUT SHIFT REG. IC:TTL DIGITAL QUAD BUFFER IC:TTL 8-8IT PARITY TREE IC:TTL SCHDITKY DUAL 4-INPT NAND BUFFER IC:TTL HS TRIPLE 3-INPT NAND GATE	12040 12040 04713 01295 01295	SD 99 36 DM 809 4N MC 4008P SN 74540N SN 7411 0N
A9U92 A9U93 A9U94 A9U95 A9U96	1820-0696 1820-0373 1820-0837 1820-0424 1820-0685	2	IC:TTL DUAL J-K F/F EDGE TRIGGERED IC:TTL HS DUAL 4-INPT NAND GATE IC:TTL DUAL 4-INPT NDR GATE IC:TTL HS HEX INVERTER IC:TTL SCHDTTKY TRIPLE 3-INPT NANO GATE	01295 01295 18324 04713 01295	SN74S114N SN74H2ON NB815A SN74H04N SN7451ON
A9U97 A9U98 A9U10I A9U102 A9U103	1820-0842 1820-0755 1820-0371 1820-0696 1820-3617		IC:TTL 8-8IT PARITY TREE IC IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL DUAL J-K F/F EDGE TRIGGERED IC:TTL OUAD 2-INPT EXCL. NOR GATE	04713 28480 01295 01295 04713	MC 4008P 1820-0755 SN 74H10N SN 74S114N MC 3022P

Table 2-9. Module Control Unit (MCU) PCA (A9), Replaceable Parts (Continued)

### ### ### ### ### ### ### ### ### ##	Reference Designation	IP Part Number	Qty	Description	Mfr Code	Mfr Part Number
March Marc						
MANISTO 120-0-0374	A9U104 1	820-0205		IC:TTL OUAO 2-INPT OR GATE	28480	1820-0205
1820-0752 1671TL 0-817 PAS-IN SECTION SHIFT REG. 120-00 120-0759 1671TL 0-817 PAS-IN SECTION SHIP REG. 120-0759 1671TL 0-817 PAS-IN SHIP REG. 120-0759 1775TL 0-817 PAS-IN SHIP REG.						
				IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG.		
	190108	.820-0759		IC:TTL LOW-POWER 8-8IT RECEIVER	28480	1820-0759
1021-0-373 1020-0-373 1 1020-0-375 1 1020-0-3			1			
1 1220-0023 1 1027-0044 1027-0023 1 10271-0044 1027-0023 1 10271-0044 1027-0023 1 10271-0045 1027-						
	90114 1	820-0424	_	IC:TTL HS HEX INVERTER	04713	SN74H04N
1 120-0755 1 120-0755 2 1 1 1 1 1 1 1 1 1	190115	.820-0623	1	IC:OIGITAL TTL 4-81T COMPARATOR	12040	OM8200N
1820-0535 2						
1671TL 0161TAL 0300 88FFER 0373 0300			2			
16270-0535 1620-0535 1620-0535 1620-0535 1620-0535 1620-0535 1620-0535 1620-0535 1620-0535 1620-0531 1620-0531 1620-0531 1620-0531 1620-0531 1620-0531 1620-0531 1620-0531 1620-0531 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0532 16271 1620-0531 1620-0532 16271 1620-0531 1620-0532 16271 1620-0531				IC:TTL DIGITAL QUAD BUFFER		
1820-0691 1820-0692 1671 1041 0474 05781 1079 1290 129	190123	.820-0617		IC:TTL OUAO 2-INPT EXCL. NOR GATE		
1820-0591 1820-0592 1CITTL SCHOTTKY 6 Wi4-2-3-21 INFT 102-95 1820-0759 1820-0754 1820-0755 1820-0755 1820-0755 1820-0755 1820-0755 1820-0755 1820-0755 1820-0755 1820-0755 1820-0755 1820-0755 1820-0755 1820-0757 1820-07						
1820-0259 ICITIL 16-POWER POIL 7 FEBRUARY 1200-0759 SN745114N SN745114N SN145114N SN1451			5			
1820-0759						
1				IC:TTL LOW-POWER 8-BIT RECEIVER		
10.17TL QUAL J-K F/F EDGE TRIGGERED 12.095			_			
1820-0696			1			SN74H55N
180135 1820-0874						
1820-0691 1820-0682 1820-0682 1820-0682 1820-0682 1820-0682 1820-0682 1820-0682 1820-0682 1820-0682 1820-0683 1820-0882 1820						
1820-0691 1820-0692 1820-0682 1820-0682 1820-0682 1820-0682 1820-0682 1820-0683 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0574 1820-0596 1820-0574 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0574 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0596 1820-0597 1820-0597 1820-0597 1820-0597 1820-0597 1820-0597 1820-0597 1820-0597 1820-0597 1820-0597 1820-0597 1820-0686 1820-0687 1820			3			SN74S30N
1820-0370 2 1 1820-0693 2 1 1 1 1 1 1 1 1 1				IC:TTL SCHOTTKY 4 W(4-2-3-2) INPT	01295	SN 74 S6 4N
1801-42 1820-0693 2 1.C:TTL SCHOTTKY JUAL O F/F W/PRESET 01295 SN74574M 1820-0574 1.C:D:GITAL TIL QUAD D-F/F 12040 OM551N 1820-0574 1.C:D:GITAL TIL QUAD D-F/F 12040 OM551N 1820-0691 1.C:D:GITAL TIL QUAD D-F/F 12040 OM551N OM551N 1820-0691 1.C:TTL SCHOTTKY 4 M(4-2-3-21NPT 01295 OM551N OM55			,			
199144 1820-0574 120-0574 120-0574 120-0574 120-0696 120-0696 120-0696 120-0696 120-0696 120-0696 120-0696 120-0696 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0697 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0686 120-0574 120-0686 120-0686 120-0686 120-0686 120-0686 120-0686 120-0686 120-0686 120-0686 120-0687 120-0697			2			
190144 1820-0574 120-0574 120-0574 120-0696 120-0696 120-0696 120-0696 120-0696 120-0696 120-0696 120-0696 120-0697 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0574 120-0696 120-0697	1 -			IC:TTL HS QUAL 4-INPT AND GATE	01295	SN74H21N
1820-0696				IC: DIGITAL TTL QUAD D-F/F	12040	0M8551N
1820-0691 IC:TTL SCHOTTKY 4 W(4-2-3-2) INPT 01295 SN74564N						
1820-0682 1820-0837 1C:TTL SHS QUAD 2-1NPT NANO GATE 18324 18324 18324 1820-0837 1C:TTL SHS QUAD 2-1NPT NANO GATE 18324 18						
1820-0837 1820-0893 16211 1820-0893 16211 1820-0893 16211 1820-0893 16211 1820-0893 16211 1820-0893 16211 1820-0894 16211 1820-0894 16211 1820-0894 16211 1820-0894 16211 1820-0894 16211 1820-0894 16211 1820-0895 1820-0896 16211	A9U148 1	.820-0682		IC:TTL SHS QUAD 2-1NPT NANO GATE	01295	
ASUL52 1820-0693 ICCTTL SCHOTTKY OUAL D F/F W/PRESET O1295 SN74S74N ASUL54 1820-0574 ICCTTL OUAD 0-F/F 12040 OH8551N ASUL55 1820-0574 ICCTTL OUAD 0-F/F 12040 OH8551N ASUL55 1820-0843 ICCTTL SCHOTTKY TRIPLE 3-IMPT AND GATE O1295 SN74S11N OH90157 1820-0843 ICCTTL OUAL OATA OISTRIBUTOR O4713 MC4002P MC4002	A9U151 1	.820-0837				
ASUL54 1820-0574						SN74S74N
A9U155 1820-0574 IC:DIGITAL TIL QUAD O-F/F 12040 01295 SN7451IN A9U156 1820-0843 IC:TIL QUAD QATE 01295 SN7451IN A9U157 1820-0843 IC:TIL QUAD QATA QUART QATE 01295 SN7451IN MC4002P M						
ASUL56 1820-0863 IC:TIT SCHOTTKY TRIPLE 3-LINFT AND GATE 01295 04713	A9U155 1	820-0574		IC:DIGITAL TTL QUAD N-F/F	1	
1620-0843 1620-0843 1621TL OUAL OATA DISTRIBUTOR 04713 164002P 1621TL OUAL J-K F/F EDGE TRIGGERED 01295 58745114N 1620-0681 1621TL OUAD 2-1NPT NAND GATE 26480 1620-0239 1621TL OUAD 2-1NPT NAND GATE 1620-0239 1621TL OUAL 4-1NPT NAND GATE 1620-0759 1621TL OUAL 4-1NPT NAND GATE 1620-0759 1621TL OUAL 4-1NPT NOR GATE 1624 1620-0759 1621TL OUAL 2-1NPT NOR GATE 1624 1620-0759 1621TL OUAL 2-1NPT NOR GATE 1624 1620-025 1621TL OUAL 2-1NPT NOR GATE 1620-025 1621TL OUAL 2-1NPT N						
A9U161 1820-0837 IC:TTL OUAL 4-INPT NOR GATE 18324 N8815A A9U162 1820-0837 IC:TTL OUAL 4-INPT NOR GATE 18324 N8815A A9U163 1820-0866 IC:TTL OUAL J-K F/F EXCE TRIGGERED O1295 SN74S114N A9U164 1820-0239 IC:TTL OUAL J-K F/F EXCE TRIGGERED O1295 SN74S114N A9U165 1820-0239 IC:TTL OUAL J-K F/F EXCE TRIGGERED O1295 SN74S114N A9U166 1820-0262 IC:TTL OUAD 2-INPT NOR GATE O1295 SN74S00N A9U167 1820-0759 IC:TTL OUAL 4-INPT NOR GATE O1295 SN74S00N A9U171 1820-0837 IC:TTL OUAL 4-INPT NOR GATE O1295 O1295 A9U172 1820-0837 IC:TTL OUAL 4-INPT NOR GATE O1295 O1295 A9U173 1820-0205 IC:TTL OUAL 4-INPT NOR GATE O1295 O1295 A9U174 1820-0363 IC:TTL OUAD 2-INPT NANO GATE O1295 SN74H00N A9U175 1820-0663 IC:TTL SCHOTTKY DATE O1295 SN74H00N A9U176 1820-0660 IC:TTL SCHOTTKY OUAL 4-INPT NANO BUFFER O1295 SN74S04N A9U177 1820-0375 IC:TTL HS OUAD 2-INPT NANO GATE O1295 SN74S04N A9U177 1820-005 IC:TTL SCHOTTKY OUAL 4-INPT NANO BUFFER O1295 SN74S04N A9W16 8159-0005 JUMPER MIRE O1295 SN74S00N A9W17 A9W18 S159-0005 JUMPER MIRE O1295 SN74H30N A9W19 O1295 O1295 O1295 O1295 O1295 A9W19 O1						
A9U162 1820-0837 1820-0696 IGC:TIL OUAL 4-INPT NOR GATE IGGERED 01295 SNT4S114N 1820-0696 IGC:TIL OUAL J-K F/F EDGE TRIGGERED 01295 SNT4S114N 1820-0896 IGC:TIL OUAD 2-INPT NOR GATE 26480 1820-0239 IGC:TIL OUAD 2-INPT NOR GATE 26480 1820-0239 SNT4S114N 1820-0239 IGC:TIL OUAD 2-INPT NAND GATE 26480 1820-0239 SNT4S0NN 249U167 1820-0262 IGC:TIL OUAD 2-INPT NAND GATE 26480 1820-0759 IGC:TIL LOW-POWER 8-BIT RECEIVER 28480 1820-0759 IGC:TIL LOW-POWER 8-BIT RECEIVER 28480 1820-0759 IGC:TIL OUAL 4-INPT NOR GATE 18324 N8815A N89U173 1820-0205 IGC:TIL OUAL 4-INPT NOR GATE 18324 N8815A 1820-0205 IGC:TIL OUAD 2-INPT OR GATE 28480 1820-0205 IGC:TIL OUAD 2-INPT OR GATE 28480 1820-0205 IGC:TIL SCHOTTKY HEX INVESTER 01295 SNT4S0AN 29U176 1820-0375 I IGC:TIL SCHOTTKY HEX INVESTER 01295 SNT4S0AN 1GC:TIL SCHOTTKY OUAL 4-INPT NAND BUFFER 01295 SNT4SOAN 1GC:TIL SCHOTTKY OUAL 4-IN						
1820-0696 IC:TTL OUAL J-K F/F EDGE TRIGGERED 1295 SN74S114N 1820-0696 IC:TTL OUAL J-K F/F EDGE TRIGGERED 1295 SN74S114N 1820-0239 IC:TTL OUAD 2-INPT NAND GATE 28480 1820-0239 IC:TTL OUAD 2-INPT NAND GATE 1820-0239 SN74S00N 1820-0262 IC:TTL OUAD 2-INPT NAND GATE 1820-0759 IC:TTL LOM-POWER 8-BLT RECEIVER 28480 8159-0005 IC:TTL OUAL 4-INPT NOR GATE 18324 N8815A	190162	820-0837			1	
ASU164 1820-0696 IC:TTL OUAD Z-INPT NOR GATE 28480 1820-0239 IC:TTL OUAD Z-INPT NAND GATE IC:TTL OUAD Z-INPT NOR GATE IC:TTL OUAD Z-INPT NOR GATE IC:TTL OUAL Z-INPT NOR GATE IC:TTL OUAL Z-INPT NOR GATE IC:TTL OUAL Z-INPT NOR GATE IC:TTL OUAD Z-INPT NOR GATE IC:TTL OUAD Z-INPT NOR GATE IC:TTL OUAD Z-INPT NOR GATE IC:TTL SCHOTTKY HEX INVERTER O1295 SN74504N IC:TTL SCHOTTKY OUAL Z-INPT NAND BUFFER O1295 SN74504N IC:TTL SCHOTTKY OUAL Z-INPT NAND GATE O1295 SN74504N IC:TTL SCHOTTKY OUAL Z-INPT NAND BUFFER O1295 SN74504N IC:TTL SCHO						
A9U166 1820-0681 IC:TTL QUAD 2-INPT NAND GATE O1295 SN74SOON A9U167 1820-0262 IC:TTL GUAD 2-INPT NAND GATE 12040 S09936 1820-0759 IC:TTL GUAD 4-INPT NANG GATE 18324 N8815A 1820-0837 IC:TTL QUAL 4-INPT NOR GATE 18324 N8815A 1820-0205 IC:TTL QUAD 2-INPT NAND GATE 18324 N8815A 1820-0205 IC:TTL QUAD 2-INPT NAND GATE 18324 N8815A 1820-0205 A9U174 1820-0370 IC:TTL GUAD 2-INPT NAND GATE O1295 SN74BOON 1820-0683 IC:TTL SCHOTTKY HEX INVERTER O1295 SN74BOON SN74SOAN IC:TTL SCHOTTKY OUAL 4-INPT NAND BUFFER O1295 SN74BOON SN74BOON IC:TTL SCHOTTKY OUAL 4-INPT NAND BUFFER O1295 SN74BOON SN74BOON SN74BOON IC:TTL SCHOTTKY OUAL 4-INPT NAND BUFFER O1295 SN74BOON SN74BOON IC:TTL SCHOTTKY OUAL 4-INPT NAND BUFFER O1295 SN74BOON SN74BOON SN74BOON SN74BOON IC:TTL SCHOTTKY OUAL 4-INPT NAND BUFFER O1295 SN74BOON SN74BOO						
A9U167 1820-0262 IC:TTL B-8IT PAR-IN SER-OUT SHIFT REG. 12040 1820-0759 1820-0759 IC:TTL LOM-POWER 8-BIT RECEIVER 28480 1820-0759 1820-0837 IC:TTL OUAL 4-INPT NOR GATE 18324 N8815A 1820-0205 IC:TTL OUAL 2-INPT NOR GATE 18324 N8815A 1820-0205 IC:TTL OUAL 2-INPT NOR GATE 18324 N8815A 1820-0205 IC:TTL OUAL 2-INPT NANO GATE 1820-0205 IC:TTL SHOULD 2-INPT NANO GATE 1820-0205 SN74H00N 1820-0205 IC:TTL SCHOTTKY HEX INVERTER 01295 SN74S0N SN74S0N IC:TTL SCHOTTKY OUAL 4-INPT NANO BUFFER 01295 SN74S0N IC:TTL SCHOTTKY OUAL 4-INPT NANO BUFFER 01295 SN74S4ON IC:TTL SCHOTTKY OUAL 4-INPT NANO GATE 01295 SN74S4ON SN74S4ON IC:TTL SCHOTTKY OUAL 4-INPT NANO GATE 01295 SN74S4ON IC:TTL SCHOTTKY OUAL 4-INPT NANO GATE 01295 SN74S4ON SN74S4ON IC:TTL SCHOTTKY OUAL 4-INPT NANO GATE 01295 SN74S4ON SN74S4ON IC:TTL SCHOTTKY OUAL 4-INPT NANO GATE 01295 SN74S4ON						
1820-0759 1820-0837 1820-0837 1820-0837 1820-0837 1820-0837 1820-0837 1820-0837 1820-0837 1820-0837 1820-0837 1820-0205 1830-0837 1820-0205 1830-0837 1820-0205 1830						
ASU171					20100	1000 0700
A9U172	A9U171 1	820-0837				
A9U174 1820-0370 1820-0683 120-0690 1C:TTL SCHOTTKY HEX INVERTER 01295 SN74504N 1820-0690 1820-0375 1 IC:TTL SCHOTTKY OUAL 4-INPT NANO BUFFER 01295 SN74540N 1C:TTL SCHOTTKY OUAL 4-INPT NANO BUFFER 01295 SN74540N 1C:TTL HS B-INPT NANO GATE 01295 SN74630N 1C:TTL HS B-INPT NANO GATE 0				IC:TTL OUAL 4-INPT NOR GATE	18324	N8815A
1820-0683	İ				į	
A9U177 1820-0690 1 IC:TTL SCHOTTKY OUAL 4-INPT NANO BUFFER 01295 SN74S4ON IC:TTL HS B-INPT NANO GATE 01295 SN74S4ON SN74H3ON A9W4 8159-0005 8159-0005 JUMPER WIRE 28480 8159-0005 8159-	A9U175 1	.820-0683				
A9W4 8159-0005 JUMPER WIRE 28480 8159-0005 8159-0005 910MPER WIRE 28480 910MPER WIR	A9U176 1	820-0690	1	IC:TTL SCHOTTKY QUAL 4-INPT NANO BUFFER	01295	SN74S40N
19W6 8159-0005 19WPER WIRE 28480 8159-0005 8159-0005 19WPER WIRE 28480 8159-0005 8159-0005 19WPER WIRE 28480 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005		020-0319	•	ACCUL NO OTIMPI MANU GAIE	01532	3N/4M3UN
A9W6 8159-0005 JUMPER WIRE 28480 8159-0005 8159-0005 99W12 8159-0005 99W16 8159-0005 99W16 28480 8159-0005 99W16 99W16 99W16 99W16 99W16 99W18 99W16	49W4 8	159-0005		JUMPER WIRE	28480	8159-0005
A9W12 8159-0005 JUMPER WIRE 28480 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005 8159-0005	A9W6 8			JUMPER WIRE	28480	8159-3005
A9XW2 1251-3322 2 PLUG:16 PIN, OIP 28480 1251-3322	1,3,1,0					
A9XW2 1251-3322 2 PLUG:16 PIN, 0IP 28480 1251-3322	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	19HEU				20700	0237-0003
A9XWIO 1251-3322 PLUG:16 PIN. 0IP 28480 1251-3322	A9XW2 1	251-3322	2	PLUG:16 PIN, OIP	28480	1251-3322
	49XWI0 1	251-3322		PLUG:16 PIN. OIP	28480	1251-3322

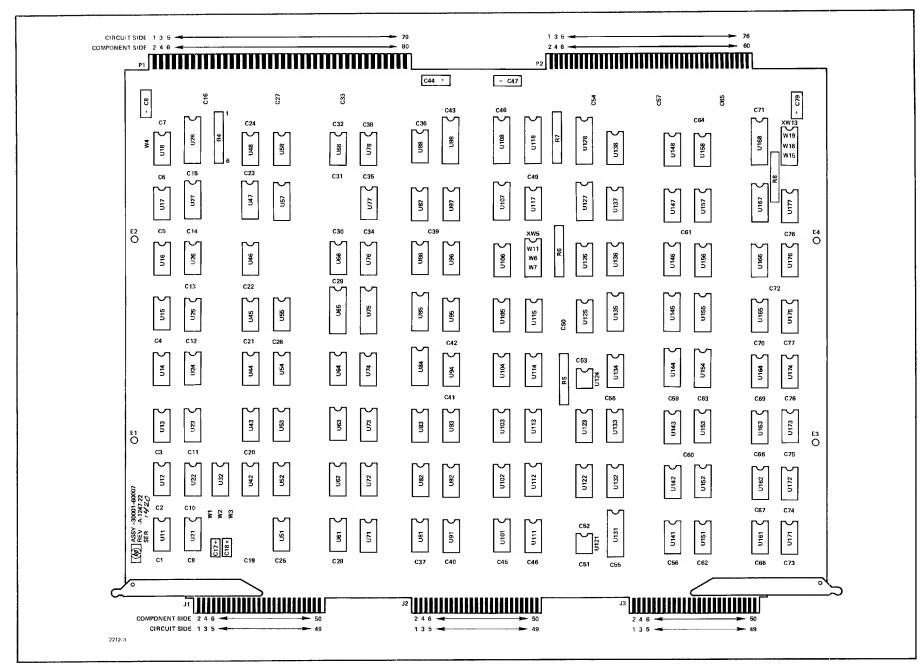


Figure 2-8. Module Control Unit (MCU) PCA (A9), Parts Location Diagram

Table 2-10. Input Output Processor (IOP) PCA (A10), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1D A10C1 A10C2 A10C3 A10C4	3DD01-60 0D8 0160-2055 D16D-2055 D160-2055 D150-D121	1 41 11	INPUT OUTPUT PRDCESSOR(IUP) PCA C:FXD CER D.D1 UF +80-2D% 1DDVOCW C:FXO CER O.D1 UF +8D-2D% 1DDVOCW C:FXD CER 0.01 UF +8D-20% 1DDVOCW C:FXD CER 0.01 UF +8D-20% 1DDVOCW	28480 56289 56289 56289 56289	30DD1-60008 C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 5C5D8IS-CML
A10C5	0180-D197	4	C:FXD ELECT 2.2 UF 10% 20VDCW	56289	150D225X9020A2-DYS
A1DC6	0160-2055		C:FXD CER D.D1 UF +8D-2D% 100VDCW	56289	C023F1U1F1D3ZS22-C0H
A10C7	0160-2055		C:FXO CER D.01 UF +8D-20% 100VDCW	56289	C023F101F1D3ZS22-CDH
A10C8	0160-2055		C:FXO CER 3.D1 UF +8D-2D% 100VOCW	56289	C023F101F1D3ZS22-CDH
A1DC9	D150-D121		C:FXO CER 3.1 UF +8D-2D% 5DVOCW	56289	5C50RIS-CML
A10C10	D160-2055		C:FXD CER 0.01 UF +80-20% 10DVOCW	56289	CD23F1D1F103ZS22-CDH
A10C11	D160-2055		C:FXO CER D.01 UF +8D-2D% 100VOCW	56289	CD23F1D1F103ZS22-CDH
A10C12	0160-2055		C:FXO CER 0.01 UF +8D-20% 100VOCW	56289	CD23F1D1F103ZS22-CDH
A10C13	0160-2055		C:FXO CER 0.01 UF +8D-2D% 10DVOCW	56289	CD23F1D1F103ZS22-COH
A10C14	D160-2055		C:FXO CER 0.01 UF +80-2D% 10DVOCW	56289	CD23F1D1F1D3ZS22-COH
A10C15	D160-2055		C:FXO CER D.D1 UF +8D-20% 100YUCW	56 289	CD23F101F1D3ZS22-CDH
A10C16	0150-0121		C:FXD CER D.1 UF +8D-20% 50YOCW	562 89	5C508IS-CML
A10C17	D160-2055		C:FXO CER 0.01 UF +8D-20% 100YDCW	562 89	CD23F1D1F103ZS22-COH
A10C18	0160-2055		C:FXO CER D.01 UF +8D-20% 100YOCW	562 89	CO23F1D1F103ZS22-CDH
A10C15	0160-2055		C:FXO CER D.01 UF +8D-20% 100YOCW	562 89	CD23F101F103ZS22-COH
A10C2D	D160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW	56289	C023F101F1D3ZS22-C0H
A10C21	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F1D3ZS22-CDH
A10C22	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F1D1F1D3ZS22-CDH
A10C23	0160-2055		C:FXO CER D.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-CDH
A1DC24	D150-D121		C:FXD CER D.1 UF +80-20% 50VDCW	56289	5C508IS-CML
A10C25	0160-2055		C:FXO CER D.D1 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
A10C26	0160-2055		C:FXO CER 0.D1 UF +80-20% 100VOCW	56289	C023F101F103ZS22-CDH
A10C27	0160-2055		C:FXO CER D.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
A10C28	0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-CDH
A10C29	0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-CDH
A10C3D	D150-3121		C:FXO CER 0-1 UF +8D-2D% 5DVOCW	56289	5C5081S-CNL
A1DC31	D150-0121		C:FXO CER 0-1 UF +80-2D% 5DVOCW	56289	5C5D81S-CNL
A10C32	0160-2055		C:FXD CER D-01 UF +8D-2O% 1DOVOCW	56289	C023F101F103ZS2Z-CDH
A1DC33	0150-0121		C:FXO CER D-1 UF +8D-2D% 5DVOCW	56289	5C5D81S-CNL
A10C34	D160-2055		C:FXO CER 0-01 UF +8D-2O% 1DDVOCW	56289	CD23F1D1F103ZS2Z-C0H
A10C35	0150-0121		C:FXO CER D.1 UF +80-20% 5DVDCM	56289	5C508IS-CNL
A1DC36	0160-2055		C:FXO CER 0.01 UF +80-20% 1DDVOCW	56289	CD23F101F103ZS22-CDH
A10C37	0150-0121		C:FXD CER D.1 UF +80-20% 50VOCW	56289	5C508IS-CNL
A10C38	0160-2055		C:FXD CER 0.01 UF +80-20% 10VVOCW	56289	CD23F101F103ZS22-CDH
A10C39	0150-0121		C:FXD CER 0.01 UF +80-20% 10VVOCW	56289	5C508IS-CNL
A10C4D	0180-0197		C:FXO ELECT 2-2 UF 10% 20VDCW	56289	1500225X902DA2-DYS
A10C41	0160-2055		C:FXD CER 0-01 UF +80-20% 10DVOCW	56289	CD23F1D1F103ZS22-COH
A10C42	0160-2055		C:FXD CER 0-01 UF +80-20% 1DOVOCW	56289	CD23F101F103ZS22-COH
A10C43	0160-2055		C:FXO CER 0-01 UF +80-20% 10DVOCW	56289	C023F101F103ZS22-COH
A10C44	0160-2055		C:FXO CER 0-01 UF +80-20% 1DDVOCW	56289	CD23F1D1F103ZS22-COH
A10C45	0160-2055		C:FXO CER 0.01 UF +8D-2D% 100VOCW	56289	C023F101F1D3ZS22-C0H
A10C46	D180-D197		C:FXO ELECT 2.2 UF 10% 2DVOCM	56289	15D0225X9020A2-0YS
A10C47	0160-2055		C:FXO CER 0.01 UF +80-20% 10DVOCW	56289	CD23F101F1D3ZS22-C0H
A10C48	D160-2055		C:FXD CER D.01 UF +80-20% 10DVOCW	56289	CD23F101F103ZS22-C0H
A1DC49	D160-2055		C:FXD CER 0.D1 UF +80-2D% 1DDVOCW	56289	C023F1D1F103ZS22-C0H
A1DC50	0160-2055		C:FXD CER 0.D1 UF +80-20% 10DVOCW	56289	C023F101F1D3ZS22-CDH
A10C51	D160-2055		C:FXO CER 0.D1 UF +80-2D% 1DDVOCW	56289	CD23F1D1F1D3ZS22-COH
A10C52	D160-2055		C:FXO CER D.01 UF +80-20% 1DDVOCW	56289	C023F101F1D3ZS22-CDH
A1DC53	0160-2055		C:FXO CER D.01 UF +80-2D% 100VOCW	56289	C023F101F1D3ZS22-COH
A10C54	0150-0121		C:FXO CER 0.1 UF +80-20% 50VOCW	56289	5C508IS-CML
A10C55 A10C56 A10R1 A10R2 A10R3	0160-2055 0180-0197 0757-0280 0757-0416 0757-0416	9 2	C:FXO CER 0.01 UF +80-20% 10 OVDCW C:FXD ELECT 2.2 UF 10% 20VDCW R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W	56289 56289 28480 28480 28480	C023F101F103ZS22-CDH 1500225X902DA2-DYS 0757-0280 0757-0416 0757-0416
A10R4	0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W	28480	0757-0280
A10R5	0757-0280		R:FXO ME7 FLM 1K OHM 1% 1/8W	28480	0757-0280
Alor8	0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W	28480	0757-0280
A10R9	0757-0280		R:FXO ME7 FLM 1K CHM 1% 1/8W	28480	0757-0280
A10R10	D757-0280		R:FXO MET FLM 1K CHM 1% 1/8W	28480	0757-0280
A10R11	0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W	28480	0757-0280
A10R12	0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W	28480	0757-0280
A10R13	0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W	28480	0757-0280
A10R14 A10S1 A10S2 A1DS3 A10U11	0757-0401 3100-2687 3100-2687 3100-2687 1820-0140	1 3 5	R:FXO MET FLM 100 OHM 1% 1/8W SWITCH:ROTARY SP5T 6 POSITION SWITCH:ROTARY SP57 6 POSITION SWITCH:ROTARY SP5T 6 POSITION IC:7TL OUAL 4-INPT AND BUFFER	28480 28480 28480 28480 04713	0757-0401 3100-2687 3100-2687 3100-2687 MC3026P

Table 2-10. Input Output Processor (IOP) PCA (A10), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10UI2 A10UI3 A10UI4 A10UI5 A10UI6	1820-0696 1820-0205 1820-0695 1820-0681 1820-0685	10 3 1 4 9	IC:TTL OUAL J-K F/F EDGE TRIGGEREO IC:TTL DUAO 2-INPT DR GATE IC:TTL SHS DUAL J-K F/F W/PRESET IC:TTL DUAD 2-INPT NAND GATE IC:TTL SCHDTTKY TRIPLE 3-INPT NANO GATE	01295 28480 01295 01295 01295	SN74S114N 1820-0205 SN74S113N SN74SDDN SN74SION
A10U17 A10U18 A10U19 A10U21 A10U22	1820-0696 1820-0535 1820-0697 1820-0696 1820-0681	1	IC:TTL DUAL J-K F/F EDGE TRIGGEREO IC:TTL DUAL PERI.2-INPT ANO ORIVER IC:TTL OUAL 4-INPT LINE ORIVER IC:TTL OUAL J-K F/F EDGE TRIGGEREO IC:TTL OUAO 2-INPT NAND GATE	01295 01295 01295 01295 01295	SN74S114N SN75451P SN74S14ON SN74S114N SN74SDON
A10U23 A10U24 A1DU25 A10U26 A10U28	1820-0262 1820-0262 1820-0140 1820-0374 1820-0690	2 2 3	IC:TTL 8-8IT PAR-IN SER-OUT SHIFT KEG. IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG. IC:TTL OUAL 4-INPT ANO SUFFER IC:TTL HS DUAL 4-INPT ANO GATE IC:TTL SCHOTTKY OUAL 4-INPT NAND SUFFER	12040 12040 04713 01295 01295	S09936 S09936 MC3026P SN74H21N SN74S40N
A10U29 A10U31 A10U32 A10U33 A10U34	1820-069D 1820-0683 1820-0691 1820-0685 1820-0681	3 1	IC:TTL SCHOTTKY DUAL 4-INPT NAND 8UFFER IC:TTL SCHOTTKY HEX INVERTER IC:TTL SCHOTTKY 4 w(4-2-3-2)INPT IC:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE IC:TTL DUAD 2-INPT NAND GATE	01295 01295 01295 01295 01295	SN74540N SN74504N SN74564N SN74510N SN74500N
A10U35 A10U36 A10U37 A10U38 A10U39	1820-0685 1820-0696 1820-0374 1820-0756 1820-0512	8 2	IC:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE IC:TTL DUAL J-K F/F EDGE TRIGGEREO IC:TTL HS DUAL 4-INPT AND GATE IC:TTL 8-BIT DRIVER INVERTING IC:TTL HS OUAL D F/F(35 MHZ MIN.)	01295 01295 01295 01295 28480 01295	SN74510N SN745114N SN74H21N 1820-0756 SN74H74N
A10U40 A10U42 A10U43 A10U44 A10U45	1820-0512 1820-0685 1820-0696 1820-0681 1820-0688	2	IC:TTL HS DUAL O F/F(35 MHZ MIN.) IC:TTL SCHOTTKY TRIPLE 3-IMPT NANO GATE IC:TTL OUAL J-K F/F EDGE TRIGGERED IC:TTL DUAD 2-IMPT NANO GATE IC:TTL SCHOTTKY DUAL 4-IMPT NAND GATE	01295 01295 01295 01295 01295	SN74H74N SN74 S1 ON SN74 S1 14N SN74 S0 ON SN74 S2 DN
A1DU46 A1DU47 A1OU48 A1OU51 A1OU52	1820-0696 1820-0140 1820-0760 1820-0696 1820-0696	5	IC:TTL OUAL J-K F/F EDGE TRIGGEREO IC:TTL DUAL 4-INPT ANO BUFFER IC:TTL 8-BIT RECEIVER INVERTING IC:TTL OUAL J-K F/F EDGE TRIGGEREO IC:TTL DUAL J-K F/F EDGE TRIGGEREO	01295 04713 2848D 01295 01295	SN74S114N MC3026P 1820-076D SN74S114N SN74S114N
A10U53 A10U54 A10U55 A10U56 A10U58	1820-0685 1820-0239 1820-0760 1820-0756 1820-0756	3	IC:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE IC:TTL DUAD 2-INPT NOR GATE IC:TTL 8-BIT RECEIVER INVERTING IC:TTL 8-BIT DRIVER INVERTING IC:TTL 8-BIT ORIVER INVERTING	01295 28480 28480 28480 28480	SN74S10N 1820-0239 1820-0760 1820-0756 1820-0756
A10U61 A10U62 A10U64 A10U65 A10U66	1820-0205 1820-0696 1820-0688 1820-0574 1820-0574	19	IC:TTL DUAD 2-INPT OR GATE IC:TTL OUAL J-K F/F EDGE TRIGGERED IC:TTL SCHOTTKY DUAL 4-INPT NAND GATE IC:OIGITAL TIL QUAD D-F/F IC:OIGITAL TIL QUAD D-F/F	28480 01295 01295 12040 12040	182D-0205 SN74S114N SN74S2DN OM8551N DM8551N
A10U68 A10U71 A10U72 A10U73 A10U74	1820-0574 1820-0239 1820-0140 1820-0574 1820-0574		IC:DIGITAL TTL QUAD D-F/F IC:TTL DUAO 2-INPT NOR GATE IC:TTL DUAL 4-INPT AND SUFFER IC:DIGITAL TTL QUAD 0-F/F IC:DIGITAL TTL DUAD D-F/F	12040 28480 04713 12040 12040	OM8551N 1820-0239 MC 3026P OM8551N DM8551N
A1DU75 A1OU76 A1OU77 A1OU78 A1OU81	1820-0574 1820-0574 1820-0574 1820-0574 1820-0140		IC:OIGITAL TTL QUAO D-F/F IC:OIGITAL TTL QUAD O-F/F IC:OIGITAL TTL QUAD D-F/F IC:DIGITAL TTL QUAD O-F/F IC:TTL DUAL 4-INPT AND BUFFER	12040 12040 12040 12040 04713	DM8551N DM8551N OM8551N DM8551N MC3026P
A10U82 A10U91 A10U92 A1DU94 A10U95	1820-0239 1820-0696 1820-0837 1820-0755 1820-0574	1 13	IC:TTL QUAD 2-INPT NOR GATE IC:TTL DUAL J-K F/F EDGE TRIGGERED IC:TTL OUAL 4-INPT NOR GATE IC IC:OIGITAL TTL QUAD 0-F/F	28480 01295 18324 28480 12040	1820-0239 SN745114N N8815A 1820-0755 OM8551N
A10U96 A10U97 A10U98 A10U101 A10U102	1820-0574 1820-0574 1820-0574 1820-0375 1820-0205	2	IC:DIGITAL TTL QUAD D-F/F IC:OIGITAL TTL QUAD D-F/F IC:DIGITAL TTL DUAD D-F/F IC:TTL HS 8-INPT NAND GATE IC:TTL QUAO 2-INPT OR GATE	12040 12040 12040 01295 28480	0M8551N 0M8551N 0M8551N SN74H30N 182D-02D5
A10U104 A10U105 A10U106 A10U107 A10U108	1820-0683 1820-0724 1820-0756 1820-0756 1820-0685	1	IC:TTL SCHOTTKY HEX INVERTER IC:TTL OUAL 2-4 DECODER W/ENABLE IC:TTL 8-8IT DRIVER INVERTING IC:TTL 8-8IT DRIVER INVERTING IC:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE	01295 04713 28480 28480 01295	SN 74 SD4N MC 4007P 1820-0756 1820-0756 SN 74 S1DN
AIOU109 A10U111 A10U114 A10U124 A10U125	1820-0686 1820-0375 1820-0756 1820-0756 1820-0755	1	IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL HS 8-INPT NAND GATE IC:TTL 8-8IT DRIVER INVERTING IC:TTL 8-8IT DRIVER INVERTING IC	D1295 D1295 2848D 28480 28480	SN74S11N SN74H3ON 182D-0756 1820-0756 1820-0755

Table 2-10. Input Output Processor (IOP) PCA (A10), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A 10U1 26 A10U1 28 A10U1 31 A10U1 32 A10U1 33	1820-0756 1820-0755 1820-0685 1820-0685 1820-0685		IC:TTL 8-81T DRIVER INVERTING IC IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE IC:TTL SCHOTTKY TRIPLE 3-INPT NAND GATE	28480 28480 01295 01295 01295	1820-0756 1820-0755 SN 7451 ON SN7451 ON SN7451 ON
Aloul34 Aloul35 Aloul36 Aloul37 Aloul38	1820-0301 1820-0301 1820-0301 1820-0301 1820-0301	5	IC:TTL QUAD 8I-STABLE O-LATCH	01295 01295 01295 01295 01295	SN7475N SN7475N SN7475N SN7475N SN7475N
A10U141 A10U145 A10U146 A10U147 A10U148	1820-0683 1820-0759 1820-0759 1820-0759 1820-0690	3	IC:TTL SCHOTTKY HEX INVERTER IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL SCHOTTKY DUAL 4-INPT NAND BUFFER	01295 28480 28480 28480 01295	SN74504N 1820-0759 1820-0759 1820-0759 SN74540N
A10U151 A10U152 A10U158 A10U161 A10U163	1820-0755 1820-0755 1820-0755 1820-0755 1820-0755		1C 1C 1C 1C 1C	28450 28480 28480 28480 28480	1820-0755 1820-0755 1820-0755 1820-0755 1820-0755
A10U164 A10U165 A10U166 A10U167 A10U168	1820-0755 1820-0755 1820-0842 1820-0755 1820-0842	2	IC IC IC:TTL 8-8IT PARITY TREE IC IC:TTL 8-BIT PARITY TREE	28480 28480 04713 28480 04713	1820-0755 1820-0755 MC4008P 1820-0755 MC4008P
Aloul 72 Aloul 78 Aloul 83 Aloul 84 Aloul 85	1820-0755 1820-0755 1820-0623 1820-0574 1820-0716	1 4	IC IC IC IC:DIGITAL TTL 4-BIT COMPARATOR IC:OIGITAL TTL QUAD 0-F/F IC:TIL SYNC PRESET 4-BIT BINARY COUNTER	28480 28480 12040 12040 01295	1820-0755 1820-0755 0M8200N 0M8551N SN74161N
Aloul 86 Aloul 87 Aloul 88 Aloul 96 Aloul 97	1820-0716 1820-0716 1820-0716 1820-0574 1820-0760		IC:TTL SYNC PRESET 4-8IT 8INARY COUNTER IC:TTL SYNC PRESET 4-8IT 8INARY COUNTER IC:TTL SYNC PRESET 4-8IT 8INARY COUNTER IC:DIGITAL TTL QUAD 0-F/F IC:TTL 8-8IT RECEIVER INVERTING	01295 01295 01295 01295 12040 28480	SN74161N SN74161N SN74161N OM8551N 1820-0760
A10U198 A10U201 A10U202 A10U2C3 A10U2O4	1820-0760 1820-0574 1820-0574 1820-0574 1820-0574		IC:TTL 8-81T RECEIVER INVERTING IC:DIGITAL TTL QUAD O-F/F IC:DIGITAL TTL QUAD O-F/F IC:DIGITAL TTL QUAD O-F/F IC:DIGITAL TTL QUAD O-F/F	28480 12040 12040 12040 12040	1820-0760 0M8551N 0M8551N 0M8551N DM8551N
A10U206 A10XW1	1620-0760 1251-3325	I	1C:TTL 8-8IT RECEIVER INVERTING PLUG:8 PIN. OIR	28480 28480	1820-0760 1251-3323

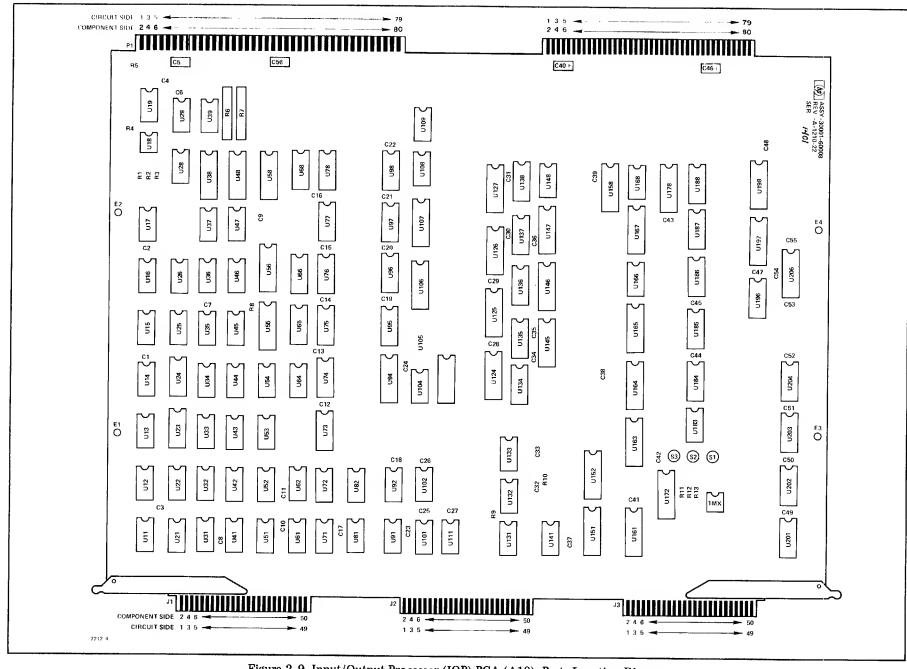
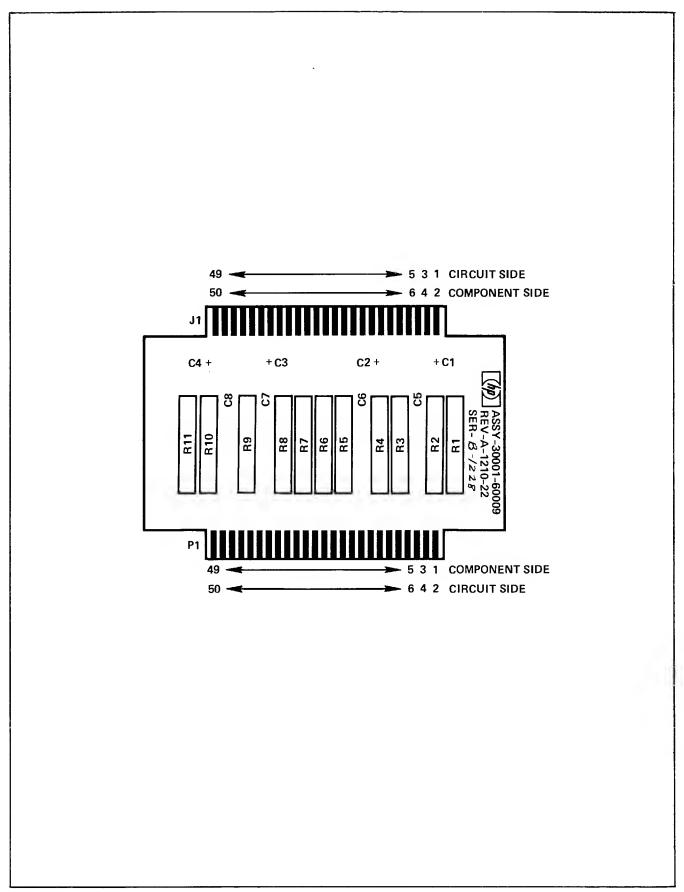


Figure 2-9. Input/Output Processor (IOP) PCA (A10), Parts Location Diagram

Table 2-11. Central Data Bus Terminator PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C2 C3 C5 C6	30001-60009 0180-0229 0180-0229 0160-0127 0160-0127	1 2 4	CENTRAL DATA BUS TERMINATOR PCA C:FXO ELECT 33 UF 10% 10VDCW C:FXO ELECT 33 UF 10% 10VDCW C:FXO CER 1.0 UF 20% 25VDCW C:FXO CER 1.0 UF 20% 25VDCW	28480 28480 28480 56289 56289	30001-60009 0180-0229 0180-0229 5C 13C S-C ML 5C 13C S-C ML
C7 C8 R1 R2 R3	0160-0127 0160-0127 1810-0080 1810-0123 1810-0080	6 5	C:FXO CER 1.0 UF 20% 25VOCH C:FXO CER 1.0 UF 20% 25VOCH R:NETWORK 7 X 500 UHM 5% 0.15W EACH RESISTIVE NETWORK:7 X 330 OHM 5% 0.15W R:NETWORK 7 X 500 OHM 5% 0.15W EACH	56289 56289 28480 28480 28480	5C13CS-CML 5C13CS-CML 1810-0080 1810-0123 1810-0080
R4 R5 R6 R7 R8	1810-0123 1810-0123 1810-0380 1810-0380 1810-0123		RESISTIVE NETWORK:7 X 330 DHM 5% 0.15W RESISTIVE NETWORK:7 X 330 DHM 5% 0.15W R:NETWORK 7 X 500 DHM 5% 0.15W EACH R:NETWORK 7 X 500 DHM 5% 0.15W EACH RESISTIVE NETWORK:7 X 330 DHM 5% 0.15W	28480 28480 28480 28480 28480	1810-0123 1810-0123 1810-0080 1810-0080 1810-0123
R9 R10 P11	1810-0080 1810-0123 1810-0080		R:NETWORK 7 X 500 OHM 5% 0.15W EACH RESISTIVE NETWORK:7 X 330 OHM 5% 0.15W R:NETWORK 7 X 500 OHM 5% 0.15W EACH	28480 28480 28480	1810-0080 1810-0123 1810-0080



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Figure 2-10. Central Data Bus Terminator PCA, Parts Location Diagram

Table 2-12. Input/Output Processor Bus Terminator PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1	30001-60016 0160-2940	1 34	INPUT/OUTPUT PROCESSOR BUS TERMINATOR PCA C:FXO MICA 470 PF 5% 300 VDCW	28480	30001-60016
C2	0160-2940	34	C:FXO MICA 470 PF 5% 300 VOCW	72136 72136	ROM15F471J3C ROM15F471J3C
С3	0160-2940		C:FXD MICA 470 PF 5% 300VDCW	72136	ROM15F471J3C
C5	0160-2940		C:FXD MICA 470 PF 5% 300VDCW	72136	ROM15F471J3C
C7	0160-2940		C:FXO MICA 470 PF 5% 300VOCW	72136	ROM15F471J3C
C10 C11	0150-0121 0180-0197	5 5	C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD ELECT 2-2 UF 10% 20VDCW	56289	5C5081S-CML
C12	0150-0121	,	C=FXD CER 0-1 UF +80-20% 50VDCW	56 2 8 9 56 2 8 9	150D225X9020A2-DYS 5C508IS-CML
C13 C14	0180-0197 0150-0121		C:FXD ELECT 2.2 UF 10% 20VDCW C:FXD CER 0.1 UF +80-20% 50VDCW	56289 56289	150D225X9020A2-DYS 5C50BIS-CML
C15	0183-0197		C:FXO ELECT 2.2 UF 10% 20VDCW	56 2 89	150D225X9020A2-DYS
C17	0160~2940		C:FXO MICA 470 PF 5% 300VDCW	72136	ROM15F471J3C
C1 9	0160-2940		C:FXD MICA 470 PF 5% 300VOCW	72136	RDM15F471J3C
C21	0160-2940		C:FXO MICA 470 PF 5% 300VDCW	72136	ROM15F471J3C
C23 C24	0160-2940 0160-2940		C:FXO MICA 470 PF 5% 300VOCW C:FXD MICA 470 PF 5% 300VOCW	72136 72136	ROM15F471J3C
C25	0160-2940		C:FX0 MICA 470 PF 5% 300 VDCW	72136 72136	ROM15F471J3C ROM15F471J3C
C26	3160-2940		C:FXO MICA 470 PF 5% 300 VDCW	72136	ROM15F471J3C
C27 C28	0160-2940 0160-2940		C:FXO MICA 470 PF 5% 300VDCW C:FXD MICA 470 PF 5% 300VDCW	72136	RDM1 5F471 J3C
C25	0160-2940		C:FXO MICA 470 PF 5% 300VDCW	72136 72136	RDM15F471J3C RDM15F471J3C
C30 C31	0160-2940 0160-2940		C:FXO MICA 470 PF 5% 300 VDCW C:FXD MICA 470 PF 5% 300 VDCW	72136	ROM15F471J3C
C32	0160~2940		C:FXD MICA 470 PF 5% 300 VDCW	72136 72136	ROM15F471J3C ROM15F471J3C
C3 3 C3 4	0180-0197 0150-0121		C:FXD ELECT 2.2 UF 10% 20VDCW C:FXD CER 0.1 UF +80-20% 50VDCW	56289 56289	150D225X9020A2-0YS 5C50BIS-CML
C35	0150-0121		C:FXD CER 0.1 UF +80-20\$ 50VDCW	56289	5C508IS-CML
C36 C37	0180-0197 0160-2940		C:FXO ELECT 2.2 UF 10% 20VDCW C:FXO MICA 470 PF 5% 300VDCW	56 2 89	1500225X9020A2-DYS
C38 C39	0160-2940 0160-2940		C:FXO MICA 470 PF 5% 300 VDCW C:FXO MICA 470 PF 5% 300 VDCW	72136 72136 72136	ROM15F471J3C ROM15F471J3C ROM15F471J3C
C40	0160-2940		C:FXO MICA 470 PF 5% 300 VDCW	72136	ROM1 5F471 J3C
C41 C42	0160-2940 0160-2940		C:FXO MICA 470 PF 5% 300 VDCW	72136	RDM1 5F471J3C
C43	0160-2940		C:FXO MICA 470 PF 5% 300 VOCW C:FXD MICA 470 PF 5% 300 VDCW	72136 72136	ROM15F471J3C ROM15F471J3C
C44	0160-2940		C:FXO MICA 470 PF 5% 300VDCW	72136	ROM15F471J3C
R1 R2	0757-0399 0757-0399	34	R:FXO MET FLM 82.5 QHM 1% 1/8W R:FXO MET FLM 82.5 QHM 1% 1/8W	28480 28480	0757-0399 0757-0399
R3	0757-0399		R:FXD MET FLM 82.5 OHM 1% 1/8W	28480	0757-0399
R5	0757-0399		R:FXD MET FLM 82.5 OHM 1% 1/8W	28 4 80	0757-0399
R7	บ757 - 0399		R:FXO MET FLM 82.5 GHM 1% 1/8W	28480	0757-0399
R10	1810-0030	5	NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA	28480	1810-0030
R11 R12	1810-0080 1810-0030	5	RENETWORK 7 X 500 OHM 5% 0-15W EACH	28480	1810-0080
R13	1810-0080		NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:NETWORK 7 X 500 OHM 5% 0.15W EACH	28480 28480	1810-0030 1810-0080
R14 R15	1810-0080 1810-0030		R:NETWORK 7 X 500 DHM 5% 0.15W EACH NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA	28480 28480	1810-0080 1810-0030
R16	0757-0399		R:FXO MET FLM 82.5 DHM 1% 1/8W	28480	0757-0399
R18	0757-0399		R:FXD MET FLM 82.5 DHM 1% 1/8W	28480	0757-0399
R20	0757-0399		R:FXD MET FLM 82.5 OHM 1% 1/8W	28480	0757-0399
R22	0757-0399		R:FXO MET FLM 82.5 OHM 1% 1/8W	28480	0757 - 03 9 9
R24 R25	0757-0399 0757-0399		R:FXD MET FLM 82.5 OHM 1% 1/8W R:FXD MET FLM 82.5 OHM 1% 1/8W	28480 28480	0757-0399 0757-0399
R26	0757-0399		R:FXO MET FLM 82.5 OHM 1% 1/8W	28480	0757-0399
R27	0757-0399		R:FXD MET FLM 82.5 OHM 1% 1/8W	28480	0757-0399
028	0757-0399		R:FXD MET FLM 82.5 OHM 1% 1/8W	28480	0757-0399
R28 R29	0757-0399		R:FXD MET FLM 82.5 OHM 1% 1/8W	28480	0757-0399

Table 2-12. Input/Output Processor Bus Terminator PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R31 R32 K33 R34 #35	0757-0399 1810-0080 1810-0030 1810-0080		R:FXO MET FLM 82.5 OHM 1% 1/8W R:NETWORK 7 X 500 OHM 5% 0.15W EACH NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:NETWORK 7 X 500 OHM 5% 0.15W EACH NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA	28480 28480 28480 28480 28480	0757-0399 1810-0080 1810-0030 1810-0080 1810-0030
R36 R37 R36 R39 R40	0757-0399 0757-0399 0757-0399 0757-0399 0757-0399		R:FXO MET FLM 82.5 OHM 1% 1/8W R:FXO MET FLM 82.5 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0399 0757-0399 0757-0399 0757-0399 0757-0399
K41 R42 R43 R44	0757-0399 0757-0399 0757-0399 0757-0399		R:FXD MET FLM 82.5 OHM 1% 1/8W R:FXO MET FLM 82.5 OHM 1% 1/8W R:FXO MET FLM 82.5 OHM 1% 1/8W R:FXO MET FLM 82.5 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0399 0757-0399 0757-0399 0757-0399
<u> </u>					

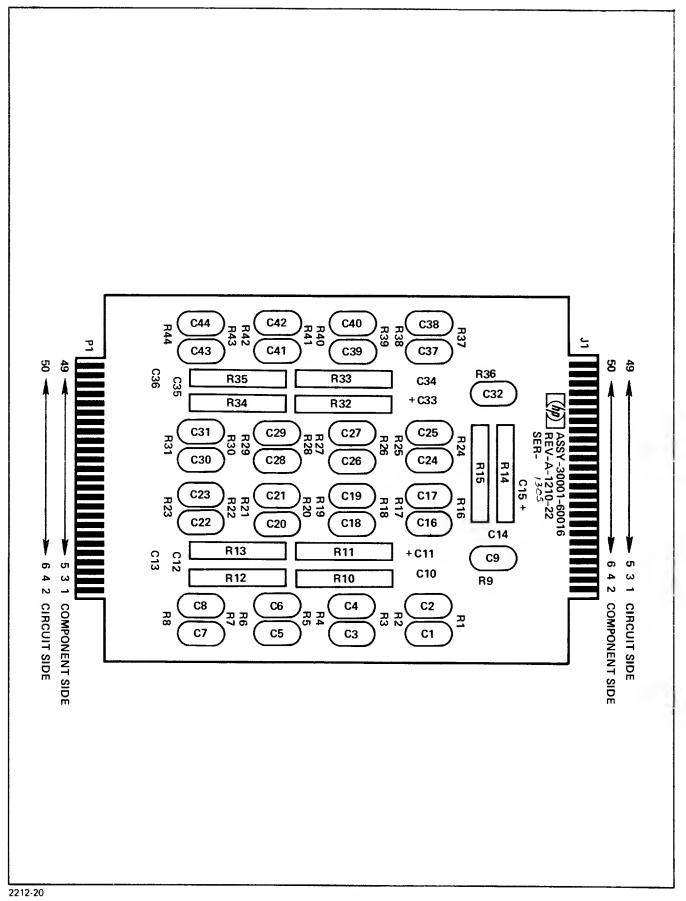


Figure 2-11. Input/Output Processor Bus Terminator PCA, Parts Location Diagram

Table 2-13. Power Bus Terminator PCA, Replaceable Parts

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	33001-60021 0150-0121 0180-0197 0160-0127 0150-0121	1 2 1	POWER 8US TERMINATOR PCA C=FXO CER 0-1 UF +80-20% 50VOCW C=FXO ELECT 2-2 UF 10% 20VDCW C=FXO CER 1-0 UF 20% 25VOCW C=FXO CER 0-1 UF +80-20% 50VOCW	28480 56289 56289 56289 56289	30001-60021 5C50815-CML 1500225X9020A2-DYS 5C13CS-CML 5C5081S-CML
J1 R1 R2 R3 R4	1251-3119 0757-0280 1810-0080 1810-0030 0757-0276	1 2 1 1	CONNECTOR:R & P. 20 CONTACT RIFXO MET FLM 1K CHM 1% 1/8W RINETWORK 7 X 500 OHM 5% 0.15W EACH METWORK:7 RESISTORS 1K CHM 5% 0.15W EA RIFXO MET FLM 61.9 OHM 1% 1/8W	66346 28480 28480 28480 28480	3428-2002 0757-0280 1810-0080 1810-0030 0757-0276
R5 R6 R6 R7 U1	0757-1060 0757-0280 0757-0198 0757-0198 1820-0756	1 2 1	R:FXO MET FLM 196 OHM 1% 1/2W R:FXO MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 100 OHM 1% 1/2W R:FXO MET FLM 100 OHM 1% 1/2W IC:TTL 8-BIT ORIVER INVERTING	28480 28480 28480 28480 28480	0757-1060 0757-0280 0757-0198 0757-0198 1820-0756
W1 W2	81 59-0005 81 59-0005	2	JUMPER WIRE JUMPER WIRE	28480 28480	8159-0005 8159-0005
					1

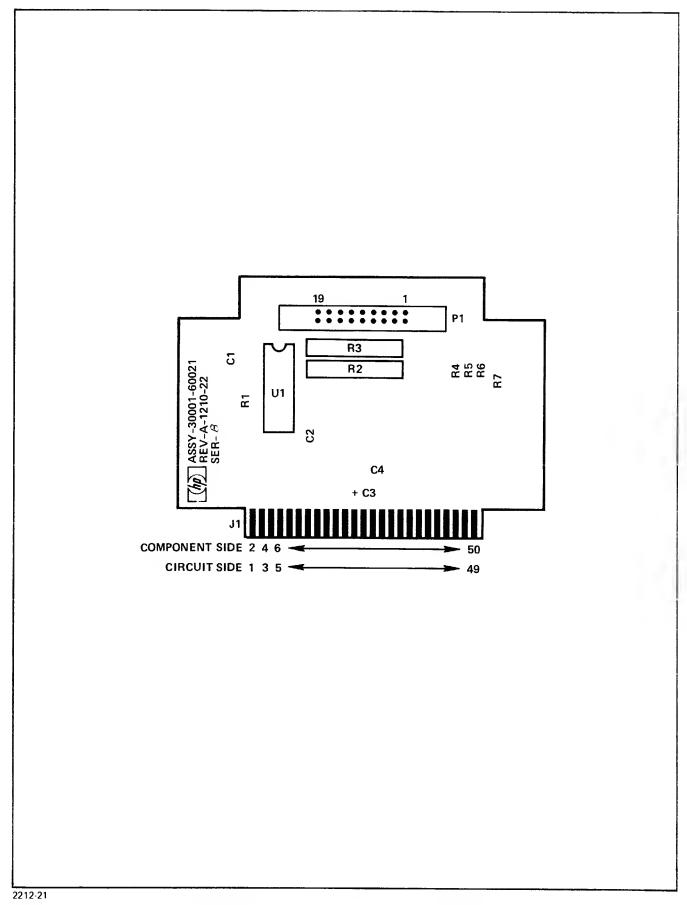


Figure 2-12. Power Bus Terminator PCA, Parts Location Diagram

Table 2-14. Control Assembly, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30001-60010 0180-0229 0160-2055 0160-2055 0180-0229	1 9 15	CDNTROL ASSY C:FXO ELECT 33 UF 10% 10VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 33 UF 10% 10VDCW	28480 28480 56289 56289 28480	30001-60010 0180-0229 C023F101F103Z522-C0H C023F101F103Z522-C0H 0180-0229
C5 C6 C7 C8 C9	0160-2055 0160-2055 0180-0229 0180-0229 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10VDCW C:FXD ELECT 33 UF 10% 10VDCW C:FXD CER 0.01 UF +80-20% 100VOCW	562 89 562 89 284 80 284 80 562 89	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 0180-0229 0180-0229 C023F101F103ZS22-CDH
C10 C11 C12 C13 C14	0160-2055 0160-2055 0180-0229 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 33 UF 10% 10VDCW C:FXO ECR 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56 289 562 89 28480 56 289 56289	C023F101F103Z522-CDH C023F101F103Z522-CDH 0180-0229 C023F101F103Z522-CDH C023F101F103Z522-COH
C15 C16 C17 C18 C19	0180-0229 0160-2055 0160-2055 0180-0229 0160-2055		C:FXO ELECT 33 UF 10% 10VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	28480 56289 56289 28480 56289	0180-0229 C023F101F103ZS22-C0H C023F101F103ZS22-CDH 0180-0229 C023F101F103ZS22-CDH
C20 C21 C22 C23 C24	0160-0127 0160-2055 0180-0229 0160-2055 0180-0229	1	C:FXD CER 1.0 UF 20% 25VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10VDCW	56289 56289 28480 56289 28480	5C13CS-CML C023F101F103ZS22-CDH 0180-0229 C023F101F103ZS22-CDH 0180-0229
C25 CR1 CR2 CR3 CR4	0160-2055 1990-0325 1990-0325 1990-0325 1990-0325	4	C:FXD CER 0.01 UF +80-20* 100VDCW DIDDE:VISIBLE LIGHT EMITTER DIDDE:VISIBLE LIGHT EMITTER OIDDE:VISIBLE LIGHT EMITTER DIDDE:VISIBLE LIGHT EMITTER	56289 28480 28480 28480 28480	C023F101F103ZS22-C0H 1990-0325 1990-0325 1990-0325 1990-0325
R1 R2 R3 S1 S2	1810-0030 0757-0280 1810-0030 3101-0932 3101-1669	2 1 1 17	NETWORK: 7 RESISTORS 1K DHM 5% 0-15W EA R:FXO MET FLM 1K DHM 1% 1/8W NETWORK: 7 RESISTORS 1K DHM 5% 0-15W EA SWITCH: SLIDE DPDT SWITCH: TOGGLE SPDT SU8-MINIAT JADE GRAY	28480 28480 28480 79727 09353	1810-0030 0757-0280 1810-0030 6350-00020 7101C82-J4X
S3 S4 S5 S6 S7	3101-1669 3101-1669 3101-1669 3101-1669 3101-1669		SMITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SMITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SMITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SMITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X
S8 S9 S1C S11 S12	3101-1669 3101-1669 3101-1669 3101-1669 3101-1669		SMITCH:TOGGLE SPOT SU8-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X
S13 S14 S15 S16 S17	3101-1669 3101-1669 3101-1669 3101-1669 3101-1669		SWITCH:TOGGLE SPDT SU8-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SU8-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X
\$1 & \$19 \$20 \$21 \$22	3101-1670 3101-1670 3101-1670 3101-1670 3101-1670	6	SMITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SMITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SMITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SMITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SMITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7108C82-J4X 7108C82-J4X 7108C82-J4X 7108C82-J4X 7108C82-J4X
S23 S24 T81 U1 U2	3101-1669 3101-1670 0360-1727 1820-0621 1810-0124	1 4 4	SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY 8ARRIER BLOCK:2 TERMINALS 1C:TTL QUAD 2-INPT NAND BUFFER W/OPEN C RESISTOR ARRAY:8 X 200 DHM 2% 1-3/4W	09353 09353 75382 01295 28480	7101C82-J4X 7108C82-J4X 699-2120-2 SN7438N 1810-0124
U3 U4 U5 U6 U7	1820-0621 1820-0621 1810-0124 1820-0621 1820-0307	8	IC:TTL QUAD 2-INPT NAND SUFFER W/OPEN C IC:TTL QUAD 2-INPT NAND SUFFER W/DPEN C RESISTOR ARRAY:8 X 200 DHM 2% 1-3/4W IC:TTL QUAD 2-INPT NAND SUFFER W/DPEN C IC:DTL HEX INVERTER	01295 01295 28480 01295 04713	SN 7438N SN 7438N 1810-0124 SN 7438N MC 836P
U8 U9 U1 0 U1 1 U1 2	1820-0307 1820-0307 1820-0307 1820-0307 1820-0307		IC:DTL HEX INVERTER IC:OTL HEX INVERTER IC:DTL HEX INVERTER IC:DTL HEX INVERTER IC:DTL HEX INVERTER IC:DTL HEX INVERTER	04713 04713 04713 04713 04713	MC836P MC836P MC836P MC836P MC836P
U13 U14 U15 U16 U18	1820-0307 1820-0307 181J-0124 1820-0424 1810-0124	1	IC:DTL HEX INVERTER IC:DTL HEX INVERTER RESISTOR ARRAY:8 X 200 DHM 2% 1-3/4W IC:TTL HS HEX INVERTER RESISTOR ARRAY:8 X 200 DHM 2% 1-3/4W	04713 04713 28480 04713 28480	MC 836P MC 836P 1810-0124 SN 74H04N 1810-0124

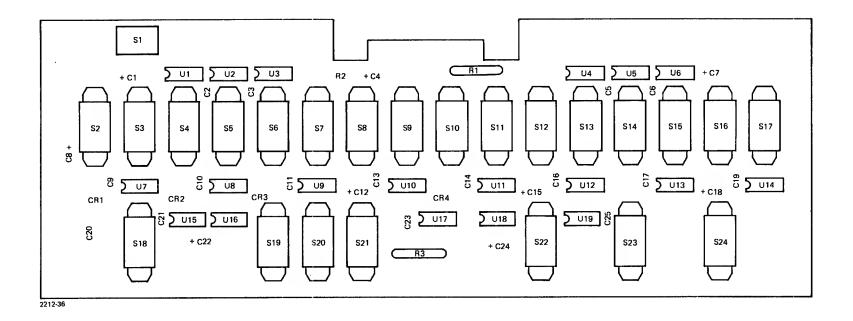


Figure 2-13. Control Assembly, Part Location Diagram

Table 2-15. Universal PCA Module, Replaceable Parts

IG & NDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNI [*] PEI ASS
2-14	30002A	UNIVERSAL PCA MODULE (Refer to table 2-1) * PCA (TYPICAL)	28480	30002A	
•	30005-60001	** MEMORY LOAD PCA (see figure 2-15)	28480	30005-60001	•
	30005-60002	** MEMORY DATA AND CONTROL PCA (see figure 2-16)	28480	30005-60002	•
	30006-60002	** MEMORY DRIVE AND SENSE PCA (see figure 2-17)	28480		•
	30030-60001*	** SELECTOR CHANNEL REGISTER PCA (see figure 2-18)	28480	30030-60001	•
	30030-60003*	** SELECTOR CHANNEL CONTROL PCA (see figure 2-19)	28480	30030-60003	•
	30030-60005*	** SELECTOR CHANNEL PORT PCA (see figure 2-20)	28480	30030-60005	•
	30030-60007*	** SELECTOR CHANNEL MAINTENANCE PCA (see figure 2-21)	28480	30030-60007	•
	30031-60001	** SYSTEM CLOCK/CONSOLE INTERFACE PCA (see figure 2-22)	28480	30031-60001	•
	30035-60001	** MULTIPLEXER CHANNEL PCA (see figure 2-23)	28480	30035-60001	- ◆
	30035-60003	** MULTIPLEXER CHANNEL BUS TERMINATOR PCA (see figure 2-24)			•
	30050-60001	** UNIVERSAL INTERFACE (TTL) PCA (see figure 2-25)	28480	30050-60001	•
	30051-60001	** UNIVERSAL INTERFACE (DIFFERENTIAL) PCA (see figure 2-26)	28480	30051-60001	•
	30052-60001*	** UNIVERSAL INTERFACE (OPTICAL) PCA (see figure 2-27)	28480	30052-60001	•
	30055-60001	** SYNCHRONOUS DATA MODAM (201/203) IF PCA (see figure 2-28)	28480	30055-60001	•
	30060-60001	** TERMINAL DATA INTERFACE PCA (see figure 2-29)	28480	30060-60001	→
	30061-60001	** TERMINAL CONTROL INTERFACE PCA (see figure 2-30)	28480	30061-60001	•
	30202-60001	** DISC FILE READ/WRITE PCA (see figure 2-31)	28480	30202-60001	•
	30202-60002	** DISC FILE BUS PCA (see figure 2-32)	28480	30202-60002	•
	30202-60003	** DISC CONTROLLER PROCESSOR PCA (see figure 2-33)	28480	30202-60003	•
	30203-60001	** DISC MEMORY CONTROLLER PCA (see figure 2-34) ** DISC MEMORY DATA PCA (see figure 2-35)	28480	30203-60001	•
	30203-60002	Brook Maintern British (See Figure 2 88)	28480	30203-60002	•
	30206-60001 30210-60001	Griff Heribert Hit Felt Moe Fort (See Figure 200)	28480	30206-60001	•
	30215-60001	** CARTRIDGE DISC CONTROLLER PCA (see figure 2-37) ** MAGNETIC TAPE (9 Track) CONTROLLER PCA	28480	30210-60001	•
	30215-60001	(see figure 2-38) ** MAGNETIC TAPE CONTROLLER PROCESSOR PCA	28480	30215-60001 30215-60002	`
	30217-60001*	(see figure 2-39) ** MAGNETIC TAPE (7 Track) CONTROLLER PCA	28480	30217-60001	•
		(see figure 2-40)			
	30350-60006 30351-60001	** CONTROL PANEL INTERFACE PCA (see figure 2-41) ** CONTROLLER MAINTENANCE INTERFACE PCA (see figure 2-42)	28480 28480	30350-60006 30350-60001	*
2	30002-60001	* BACKPLANE ASSEMBLY	28480	30002-60001	
3	No Number	* FAN ASSEMBLY (see figure 2-43)	-0.00	OBD	•
4	No Number	* CARD CAGE ASSEMBLY		OBD	•

 $[\]bullet$ Units per assembly depends on system configuration.

 $[\]star$ Indicates parts lists are not available for this printing.

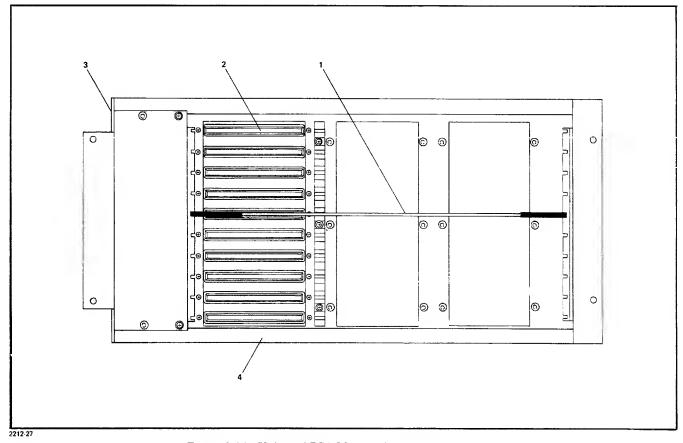


Figure 2-14. Universal PCA Module, Parts Location Diagram

Table 2-16. Memory Load PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3	30005-60001 0160-0127 0160-3710 0160-0127 0160-3710	1 27 17	MEMORY LDAO PCA C:FXO CER 1.0 UF 20% 25VOCW C:FXO MICA 1600 PF 5% 100VOCW C:FXO CER 1.0 UF 20% 25VOCW C:FXO MICA 1600 PF 5% 100VOCW	28480 56289 84171 56289 84171	30005-60001 5C 13CS-CML DM15F162J0 5C 13CS-CML 0M15F162J0
C6 C7 C8	0160-3710 0160-0127 0160-0127 0160-3710 0160-3710		C:FXO MICA 1600 PF 5% 100VDCW C:FXO CER 1-0 UF 20% 25VDCW C:FXO CER 1-0 UF 20% 25VDCW C:FXO MICA 1600 PF 5% 100VDCW C:FXO MICA 1600 PF 5% 100VDCW	84171 56289 56289 84171 84171	0M15F162J0 5C13CS-CML 5C13CS-CML DM15F162J0 0M15F162J0
C11 C12 C13	0160-0127 0160-3710 0160-0127 0160-0127 0160-3710		C:FXO CER 1.0 UF 20% 25VOCH C:FXO MICA 1600 PF 5% 100VDCW C:FXO CER 1.0 UF 20% 25VOCH C:FXO CER 1.0 UF 20% 25VOCH C:FXO MICA 1600 PF 5% 100VDCW	56289 84171 56289 56289 84171	5C13CS-CHL 0M15F162J0 5C13CS-CML 5C13CS-CML 0M15F162J0
C16 C17 C18	0160-0127 0160-3710 0160-3710 0160-0127 0160-0127		C:FXO CER 1.0 UF 20% 25VOCW C:FXO MICA 1600 PF 5% 100VDCW C:FXO MICA 1600 PF 5% 100VDCW C:FXO CER 1.0 UF 20% 25VDCW C:FXO CER 1.0 UF 20% 25VOCW	56289 84171 84171 56289 56289	5C 13CS-CHL 0M15F162J0 0M15F162J0 5C 13CS-CML 5C 13CS-CML
C21 C22 C23	0160-3710 0160-3710 0160-0127 0160-3710 0160-0127		C:FXO M1CA 1600 PF 5% 100VDCH C:FXO M1CA 1600 PF 5% 100VDCH C:FXO CER 1.0 UF 20% 25VDCH C:FXO M1CA 1600 PF 5% 100VDCH C:FXD CER 1.0 UF 20% 25VDCH	84171 84171 56289 84171 56289	0M15F162J0 0M15F162J0 5C13CS-CML 0M15F162J0 5C13CS-CML
C26 C27 C28	0160-0127 0160-3710 0160-0127 0160-3710 0160-3710		C:FXO CER 1.0 UF 20% 25VOCH C:FXO MICA 1600 PF 5% 100VDCW C:FXD CER 1.0 UF 20% 25VOCW C:FXD MICA 1600 PF 5% 100VDCH C:FXD MICA 1600 PF 5% 100VDCW	56289 84171 56289 84171 84171	5C13CS-CML OM15F16ZJO 5C13CS-CML OM15F16ZJO OM15F16ZJO
C31 C32 C33 C	0160-0127 0160-3710 0160-0127 0160-3710 0160-0127		C:FXO CER 1.0 UF 20% 25VOCW C:FXO MICA 1600 PF 5% 100VDCW C:FXD CER 1.0 UF 20% 25VDCW C:FXD MICA 1600 PF 5% 100VDCW C:FXD CER 1.0 UF 20% 25VDCW	56289 84171 56289 84171 56289	5C13CS-CHL OM15F16ZJD 5C13CS-CHL OM15F16ZJO 5C13CS-CML
C36 C37 C38	0180-0094 0180-0094 0180-0094 0180-0094 0180-0094	12	C:FXO ELECT 100 UF +75-10% 25VDCW C:FXO ELECT 100 UF +75-10% 25VDCW C:FXO ELECT 100 UF +75-10% 25VOCW C:FXO ELECT 100 UF +75-10% 25VOCW C:FXO ELECT 100 UF +75-10% 25VOCW	56 289 56 289 56 289 56 289 56 289	30D107G025002-0SM 30D107G025002-0SM 300107G025002-0SM 300107G025002-0SM 300107G025002-0SM
C41 C42 C43 C	0180-0094 0180-0094 0180-0094 0180-0094 0180-0094		C:FXD ELECT 100 UF +75-10% 25VDCW C:FXO ELECT 100 UF +75-10% 25VDCW C:FXO ELECT 100 UF +75-10% 25VDCW C:FXD ELECT 100 UF +75-10% 25VDCW C:FXD ELECT 100 UF +75-10% 25VDCW	56289 56289 56289 56289 56289	300107G025002-0SM 300107G025D02-0SM 300107G025DD2-0SM 300107G025002-0SM 300107G025D02-0SM
C46 C47 C48	0180-0094 0180-0094 0160-0127 0160-0127 0160-0127		C:FXD ELECT 100 UF +75-10% 25VDCW C:FXO ELECT 100 UF +75-10% 25VOCW C:FXD CER 1-0 UF 20% 25VDCW C:FXO CER 1-0 UF 20% 25VDCW C:FXO CER 1-0 UF 20% 25VDCW	56289 56289 56289 56289 56289	300107G025DD2-0SM 300107G025DD2-0SM 5C13CS-CML 5C13CS-CML 5C13CS-CML
C51 C52 C53 C	0160-0127 0160-0127 0160-0127 0160-0127 0160-0127		C:FXD CER 1-0 UF 20% 25VDCW C:FXO CER 1-0 UF 20% 25VDCW C:FXD CER 1-0 UF 20% 25VDCW C:FXO CER 1-0 UF 20% 25VDCW C:FXD CER 1-0 UF 20% 25VDCW	56289 56289 56289 56289 56289	5C13CS-CHL 5C13CS-CML 5C13CS-CML 5C13CS-CML 5C13CS-CML
C56 C57 C58	0160-2055 0160-2055 0160-2306 0160-0127 0160-0127	2	C:FXO CER 0.D1 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO MICA 27 PF 5% C:FXO CER 1.0 UF 20% 25VOCW C:FXO CER 1.0 UF 20% 25VOCW	56 289 56 289 28 480 56 289 56 289	C023F101F103ZS22-CDH C023F101F103ZS22-COH 0160-2306 5C13CS-CML 5C13CS-CML
CR2 CR3 CR4	1901-0040 1901-0040 1901-0620 1901-0620 1901-0620	18 32	DIODE:SILICON 50 MA 30 MV DIODE:SILICON 50 MA 30 MV DIODE BREAKOOMN OIDDE BREAKODWN OIDOE BREAKODWN	07263 07263 28480 28480 28480	F061088 F061088 1901-0620 1901-0620 1901-0620
CR7 1 CR8 1 CR9 1	1901-0620 1901-0620 1901-0620 1901-0620 1901-0620		DIODE BREAKOOWN OIODE BREAKDOWN DIODE BREAKDOWN OIODE BREAKDOWN OIODE BREAKOOWN	28480 28480 28480 28480 28480	1901-0620 1901-0620 1901-0620 1901-0620 1901-0620
CR12 1 CR13 1 CR14 1	1901-0620 1901-0620 1901-0620 1901-0620 1901-0620		OIDDE BREAKOOMN OIDDE BREAKOOMN OIODE BREAKOOMN DIODE BREAKDOWN OIDDE BREAKOOWN	28480 28480 28480 28480 28480	1901-0620 1901-0620 1901-0620 1901-0620 1901-0620

Table 2-16. Memory Load PCA, Replaceable Parts (Continued)

	Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
CALT 1001-0-020				DIDDE BREAKDDWN	28480	1901-0620
CARD 1001-00-00					28480	1901-0620
C221 1001-00-02	CR15	1901-0620		DIOGE BREAKDOWN	28480	1901-0620
CASE 1901-0-020						
CARD 1901-0420						
CR26				OIOOE 8REAKDOWN	28480	1901-0620
1901-0620 1901						
CA22 1901-0040 DIODE:SILICON SO MA 30 WV						
1901-0620 DIODE BREADOWN 28480 1901-0620 CR32 1901-0040 DIODE SILICON SO MA 30 WY 07263 FOGLOSS 1901-0640 DIODE SILICON SO MA 30 WY 07263 FOGLOSS FOGLOSS 1901-0620 DIODE SILICON SO MA 30 WY 07263 FOGLOSS FOGL	CR28	1901-0040				
CR32						
CR33					28480	
CR34 1901-0620 DIDDE SERRANDOMN 28480 1901-0620 CR31 1901-0620 DIDDE SERRANDOMN 28480 1901-0620 CR31 1901-0040 DIDDE SERRANDOMN 28480 1901-0620 CR41 1901-0040 DIDDE SERRANDOMN 28480 1901-0620 CR44 1901-0040 DIDDE SELLICON 50 NA 30 WV 07263 F061088 F06108						FDG1 088
Cast 1001-1040	CR34	1901-0620		DIDDE BREAKODWN	28480	1901-0620
C631						
CR49	CR37	1901-0040		DIOGE:SILICON 50 MA 30 WV	07263	FDG1088
CR42	CR39					
CA42		1901-0040		DIGOE:S(LICON 50 MA 30 WV	07263	F0G1088
CA443 1901-0620 OLOGE BREAKDOWN OTZ63 FOGLOBE						
DIDDE_STLICON_SD_MA_30_WV	CR43	1901-0620		OIODE BREAKDOWN	28480	1901-0620
CH47 1901-0620 DIODE BREAKCOMN 28480 1901-0626 CH46 1901-0040 DIODE'SILICON 50 MA 30 WV 07263 F661088 1901-0620 DIODE'SILICON 50 MA 30 WV 07263 F661088 1901-0620 DIODE'SILICON 50 MA 30 WV 07263 F661088 DIODE'SILICON 50 MA 30 WV 07263 DIODE'SILICON 50 MA 30 WV 07						
CA48						
CR45	CR48					
1854-0019 21 TSTR:SI NPN 28460 1854-0019 1					07263	FDG1088
1854-0019 TSTR:SI NPN 28480 1854-0019 15TR:SI NPN 28480 1854-0019 15TR:SI NPN 28480 1854-0019 15TR:SI NPN 28480 1854-0019 15TR:SI NPN 28480 1854-0019 1853-0034 1853-0034 15TR:SI NPN 28480 1853-0034 1853		1854-0019	21	TSTR:SI NPN	!	
1854-0019 TSTR:SI NPN 28480 1854-0019 TSTR:SI NPN 28480 1854-0019 1853-0034 1854-0019 1853-0034 1853-003						
1854-0019 1853-0034 16 1854-0019 1853-0034	04	1854-0019		TSTR:SI NPN	28480	1854-0019
07						
010 011 1854-0019	07	1853-0034	16	TSTR:SI PNP(SELECTED FRDM 2N3251)	28480	1853-0D34
012	010	1854-0019				
1853-0034 1854-0019 15TR:SI PNP SELECTED FROM 2N3251 28480 1854-0019 1853-0034 1854-0019 15TR:SI PNP 28480 1853-0034				TSTR:SI PNP(SELECTED FROM 2N3251)	28480	1853-0034
1854-0019 TSTR:SI NPN 28480 1853-0034 1853-0						
TSTR:SI NPM 28480 1854-0019 TSTR:SI NPM 28480 1854-0019 1853-0034 TSTR:SI NPM 28480 1853-0034 1853-0034 TSTR:SI NPM 28480 1853-0034 1853-0034 1853-0034 TSTR:SI NPM 28480 1853-0034 18		1854-0019		TSTR:SI NPN	28480	1854-0019
018						
1853-0034						
1853-0034	019	1853-0034				
1853-0034						
1854-0019						
1853-0034						
027	025	1853-0034		TSTR:SI PNP(SELECTED FROM 2N3251)	28480	1853-0034
028						
1854-0019	028	1854-0019		TSTR:SI NPN	28480	1854-0019
031	030	1854-0019		TSTR:SI NPN		
033						
034						
036	034	1854-0019		TSTR:SI NPN	28480	1854-0019
038 1854-0019 TSTR:SI NPN 28480 1854-0019 R1 0811-2988 17 R:FXO WW 22 OHM 1% 7W 28480 0811-2988						
R1 0811-2988 17 R:FXO NW 22 OHM 1% 7W 28480 0811-2988						
AA	R1	0811-2988	17	R:FXO WW 22 OHM 1% 7W		
R3 0811-2988 R1FXO WW 22 OHM 18 7W 28480 0811-2988	R2 R3	0811-2988 0811-2988		R:FXD WW 22 DHM 1% 7W	28480	0811-2988

Table 2-16. Memory Load PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Ωty	Description	Mfr Code	Mfr Part Number
R5 R6 R7	0811-2988 0811-2988 0811-2988 0811-2988 0811-2988		R:FXO WW 22 OHM 1% 7W R:FXO WW 22 OHM 1% 7W	28480 28480 28480 28480 28480	0811-2988 0811-2988 0811-2988 0811-2988 0811-2988
R10 R11 R12	0811-2988 0811-2988 0811-2988 0811-2988 0811-2988		R:FXO WW 22 DHM 1% 7W R:FXO WW 22 DHM 1% 7W	28480 28480 28480 28480 28480	0811-2988 0811-2988 0811-2988 0811-2958 0811-2988
R15 R16 R17	0811-2988 0811-2988 0811-2988 0811-2988 0811-2031	1	R:FXO WW 22 OHM 1% 7W R:FXO WW 815 OHM 3% 1/4W	28480 28480 28480 28480 28480	0811-2988 0811-2988 0811-2988 0811-2988 0811-2031
R19 R20 R21	0757-0416 0698-0085 0757-0280 0698-3443 0698-3440	2 1 34 2 6	R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 2.61K DHM 1% 1/8W R:FXO ME7 FLM 1K CHM 1% 1/8W R:FXO ME7 FLM 287 OHM 1% 1/8W R:FXO ME7 FLM 196 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0416 0698-0085 0757-0280 0698-3443 0698-3440
R24 R25 R26	0698-3440 0698-3440 0698-3440 0698-3440 0698-3440		R:FXD MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 196 OHM 1% 1/8W R:FXD ME7 FLM 196 OHM 1% 1/8W R:FXD MET FLM 196 OHM 1% 1/8W R:FXD ME7 FLM 196 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3440 0698-3440 0698-3440 0698-3440 0698-3440
R29 R30 R31	0698-3443 0757-0280 0757-0416 0757-0403 0757-0403	16	R:FXO MET FLM 287 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO ME7 FLM 511 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W R:FXO ME7 FLM 121 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3443 0757-0280 0757-0416 0757-0403 0757-0403
R34 R35 R36	0757-0403 0757-0403 0757-0403 0757-0403 0757-0403		R:FXO MET FLM 121 DHM 1% 1/8W R:FXO ME7 FLM 121 DHM 1% 1/8W R:FXO ME7 FLM 121 DHM 1% 1/8W R:FXO ME7 FLM 121 DHM 1% 1/8W R:FXO MET FLM 121 DHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0403 0757-0403 0757-0403 0757-0403 0757-0403
R39 R40 R41	0757-0403 0757-0403 0757-0403 0757-0403 0757-0403		R:FXD MET FLM 121 OHM 1* 1/8W R:FXO ME7 FLM 121 OHM 1* 1/8W R:FXD ME7 FLM 121 OHM 1* 1/8W R:FXD ME7 FLM 121 OHM 1* 1/8W R:FXO ME7 FLM 121 OHM 1* 1/8W	28 4 8 0 28 4 8 0 28 4 8 0 28 4 8 0 28 4 8 0	0757-0403 0757-0403 0757-0403 0757-0403 0757-0403
R44 R45 R46	0757-0403 0757-0403 0757-0403 0757-0403 0811-0939	1	R:FXD ME7 FLM 121 OHM 1% 1/8W R:FXD ME7 FLM 121 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MW 100 OHM 3% 5W	26480 28480 28480 28480 28480	0757-0403 0757-0403 0757-0403 0757-0403 0757-0403 0811-0939
R49 R50 R51	0757-0280 0698-3435 0698-3435 0757-0280 0757-0280	16	R:FXO ME7 FLM 1K CHM 1% 1/8W R:FXD MET FLM 38.3 DHM 1% 1/8W R:FXO ME7 FLM 38.3 DHM 1% 1/8W R:FXO ME7 FLM 1K CHM 1% 1/8W R:FXD ME7 FLM 1K CHM 1% 1/8W	28480 28480 28480 28460 28480	0757-0280 0698-3435 0698-3435 0757-0280 0757-0280
R54 R55 R56	0698-3435 0698-3435 0757-0280 0757-0280 0698-3435		R:FXO ME7 FLM 38.3 OHM 1% 1/8W R:FXO ME7 FLM 38.3 OHM 1% 1/8W R:FXO ME7 FLM 1K CHM 1% 1/8W R:FXO ME7 FLM 1K CHM 1% 1/8W R:FXO ME7 FLM 38.3 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3435 0698-3435 0757-0280 0757-0280 0698-3435
R59 R60 R61	06 98-3435 0757-0280 0757-0280 06 98-3435 06 98-3435		R:FXO ME7 FLM 38.3 OHM 1% 1/8W R:FXO ME7 FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO ME7 FLM 38.3 OHM 1% 1/8W R:FXO MET FLM 38.3 OHM 1% 1/8W	28 480 28 480 28 480 28 480 28 480	0698-3435 0757-0280 0757-0280 0698-3435 0698-3435
R64 K65 R66	0757-0280 0757-0280 0698-3435 0698-3435 0757-0280		R:FXD MET FLM 1K CHM 1% 1/8W R:FXD ME7 FLM 1K CHM 1% 1/8W R:FXO ME7 FLM 38-3 OHM 1% 1/8W R:FXO MET FLM 38-3 OHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0280 0698-3435 0698-3435 0757-0280
R68 R69 R70 R71 R72	0757-0280 0698-3435 0698-3435 0757-0280 0757-0280		R:FXO ME7 FLM 1K CHM 12 1/8W R:FXO ME7 FLM 38.3 OHM 13 1/8W R:FXO ME7 FLM 38.3 OHM 13 1/8W R:FXO ME7 FLM 1K CHM 12 1/8W R:FXO ME7 FLM 1K CHM 12 1/8W	28480 28480 28480 28480 28480	0757-0280 0698-3435 0698-3435 0757-0280 0757-0280
R73 R74 R75 R76 R77	0698-3435 0698-3435 0757-0280 0757-0280 0698-3435		R:FXO ME7 FLM 38.3 OHM 1% 1/8W R:FXO ME7 FLM 38.3 OHM 1% 1/8W R:FXO ME7 FLM 1K OHM 1% 1/8W R:FXO ME7 FLM 1K OHM 1% 1/8W R:FXO ME7 FLM 38.3 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3435 0698-3435 0757-0280 0757-0280 0698-3435

Table 2-16. Memory Load PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R79 R80 R81	0698-3435 0757-0280 0757-0280 0757-0280 0757-0794	16	R=FXO MET FLM 38.3 DMM 1% 1/8W R=FXO MET FLM 1K GMM 1% 1/8M R=FXD MET FLM 1K OMM 1% 1/8W R=FXD MET FLM 68.1 OMM 1% 1/2W R=FXD MET FLM 68.1 OMM 1% 1/2W	284 80 284 80 284 80 284 80 284 80 284 80	0698-3435 0757-0280 0757-0280 0757-0794 0757-0794
R84 R85 R86	0757-0280 0757-0280 0757-0794 0757-0794 0757-0280		R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 68-1 OHM 1% 1/2W R:FXD MET FLM 68-1 OHM 1% 1/2W R:FXD MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0280 0757-0794 0757-0794 0757-0280
R89 (6 R90 (6 R91 (6	0757-0280 0757-0794 0757-0794 0757-0280 0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 68.1 OHM 1% 1/2W R:FXO MET FLM 68.1 OHM 1% 1/2W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0794 0757-0794 0757-0280 0757-0280
R94 (R95 (0757-0794 0757-0794 0757-0280 0757-0280 0757-0794		R:FXO MET FLM 68.1 DHM 1% 1/2W R:FXO MET FLM 68.1 DHM 1% 1/2W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 68.1 DHM 1% 1/2W	28480 28480 28480 28480 28480	0757-0794 0757-0794 0757-0280 0757-0280 0757-0794
R99 R100 R101	0757-0794 0757-0280 0757-0280 0757-0794 0757-0794		R:FXO MET FLM 68.1 DHM 1% 1/2W R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 68.1 DHM 1% 1/2W R:FXO MET FLM 68.1 DHM 1% 1/2W	28 4 80 28 4 80 28 4 80 28 4 80 28 4 80 28 4 60	0757-0794 0757-0280 0757-0280 0757-0794 0757-0794
R104 (0 R105 (0 R106 (0	0757-0280 0757-0280 0757-0794 0757-0794 0757-0280		R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 68.1 OHM 1% 1/2W R:FXD MET FLM 68.1 DHM 1% 1/2W R:FXD MET FLM 1K CHM 1% 1/8W	28 4 80 28 4 80 28 4 60 28 4 80 28 4 80	0757-0280 0757-0280 0757-0794 0757-0794 0757-0280
R109 R110 R111 U36 R/1/2 U37 U46 U48 U49	0757-0280 0757-0794 0757-0794 0757-0280 1820-0755 0679-34735 1820-0756 1820-0608 1821-0006 1858-0020	4 / 2 2 2 4	R:FXD MET FLM 1K GHM 1X 1/8W R:FXO MET FLM 68.1 OHM 1X 1/2W R:FXO MET FLM 68.1 OHM 1X 1/2W R:FXO MET FLM 1K GHM 1X 1/8W 1C R:FXD /47 OHM IC:TIL 8-BIT ORIVER INVERTING 1C:TTL 1 OF OECDDER W/ENABLE 75TR ARRAY:SI NPN OUAD 1STR ARRAY:SI NPN QUAD CDRE DRIVERS 15TR ARRAY:SI NPN QUAD	28480 28480 28480 28480 28480 28480 28480 04713 28480 28480 28480	0757-0280 0757-0794 0757-0794 0757-0280 1820-0755 ルサタテ・34/35 1820-0756 MC4006P 1821-0006 1858-0020 1821-0006
U87 1 U96 1 U97 1	1858-0020 1820-0755 1820-0424 1820-0755 1821-0006	1	7STR ARRAY:SI PNP OUAO CDRE DRIVERS IC IC:IC:T7L HS HEX INVERTER IC TSTR ARRAY:SI NPN QUAO	28480 28480 04713 28480 28480	1858-0020 1820-0755 SN74H04N 1820-0755 1821-0006
U136 U137 U138	1858-0020 1820-0755 1820-0756 1821-0006 1858-0020		TSTR ARRAY:SI PNP QUAD CDRE ORIVERS IC IC:TTL 8-817 ORIVER INVERTING 7STR ARRAY:SI NPN OUAD 7STR ARRAY:SI PNP OUAD CORE ORIVERS	28480 28480 28480 28480 28480	1858-0020 1820-0755 1820-0756 1821-0006 1858-0020
U156 1	1820-0608		IC:77L 1 OF OECOGER W/ENABLE	04713	MC 4006P

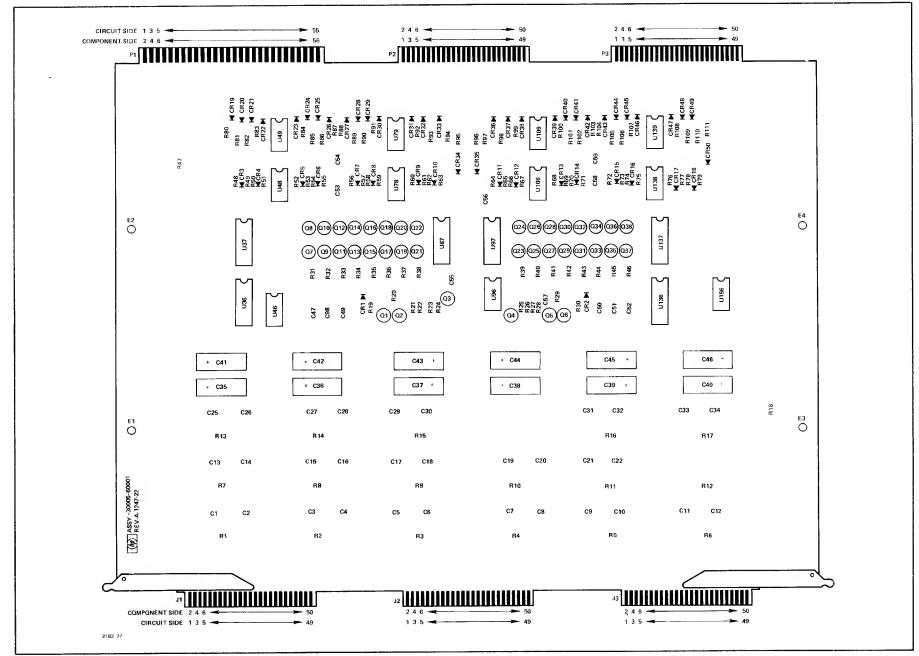


Figure 2-15. Memory Load PCA, Parts Location Diagram

Table 2-17. Memory Data and Control PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30005-60002 0180-0374 0160-0127 0160-0127 0160-0127	1 2 13	MEMBRY DATA AND CONTROL PCA C=FXD TANT. 10 UF 10% 20VDCW C=FXD CER 1.0 UF 20% 25VDCW C=FXD CER 1.0 UF 20% 25VDCW C=FXO CER 1.0 UF 20% 25VDCW	28480 56265 56289 56289 56289	30005-60002 1500106X9020R2-0YS 5C13CS-CML 5C13CS-CML 5C13CS-CML
C5 C6 C7 C8 C9	0160-2055 0160-0127 0160-0127 0180-0374 0160-2055	21	C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 1.0 UF 20% 25VDCW C:FXD CER 1.0 UF 20% 25VDCW C:FXD TANT. 10 UF 10% 20VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH 5C13CS-CML 5C13CS-CML 1500106X902082-DYS C023F101F103ZS22-C0H
C10 C11 C12 C13 C14	0160-2055 0160-2055 0160-0127 0160-0127 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 1.0 UF 20% 25VDCW C:FXD CER 1.0 UF 20% 25VDCW C:FXD CER 3.01 UF +80-20% 100VUCW	56289 56289 56289 56289 56289	C023F101F103ZS22-L0H C023F101F103ZS22-CDH 5C13CS-CML 5C13CS-CML C023F101F103ZS22-CDH
C15 C16 C17 C18 C19	0160-2055 0160-0127 0160-2055 0160-2055 0160-2055		C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 1-0 UF 20% 25VDCW C:FXD CER 0-01 UF +80-20% 10DVDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56 289 56 289 56 289 56 289 56 289	C023F101F103ZS22-CDH 5C13CS-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C20 C21 C22 C23 C24	0160-2055 0160-2055 0160-2055 0160-0127 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 1.0 UF 20% 25VDCW C:FXO CER 0.01 UF +80-20% 1D0VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C13CS-CML C023F101F103ZS22-CDH
C25 C26 C27 C28 C29	0160-0127 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 1.0 UF 20% 25VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C13CS-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C30 C31 C32 C33 C34	0160-2055 0160-2055 0160-2055 0160-2055 0160-0127		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 1.0 UF 20% 25VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-COH 5C13CS-CML
C35 C36 C37 DL1 CL2	0160-0127 0160-0970 0160-0127 1810-0064 1810-0064	1 2	C:FXO CER 1.0 UF 20% 25VDCW C:FXD MY 0.47UF 10% 80VDCW C:FXD CER 1.0 UF 20% 25VDCW DELAY LINE: DELAY LINE:	56289 56289 56289 01961 01961	5C13CS-CML 192P4749R8-PTS 5C13CS-CML GG4 GG4
01 02 C3 04 C5	1854-0019 1854-0019 1854-0019 1854-0019 1854-0019	24	TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	28480 28480 28480 28480 28480 28480	1854-0019 1854-0019 1854-0019 1854-0019 1854-0019
06 07 08 05 010	1854-0019 1854-0019 1854-0019 1854-0019 1854-0019		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	28480 28480 28480 28480 28480 28480	1854-0019 1854-0019 1854-0019 1854-0019 1854-0019
011 012 013 014 015	1854-0019 1854-0019 1854-0019 1854-0019 1854-0019		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	28480 28480 28480 28480 28480	1854-0019 1854-0019 1854-0019 1854-0019 1854-0019
016 017 018 019 020	1854-0019 1854-0019 1854-0019 1854-0019 1854-0019		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	28480 28480 28480 28480 28480	1854-0019 1854-0019 1854-0019 1854-0019 1854-0019
021 022 023 024 R1	1854-0019 1854-0019 1854-0019 1854-0019 0757-0280	15	TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN R:FXD MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	1854-0019 1854-0019 1854-0019 1854-0019 0757-0280
R2 R3 R4 R5 R6	0757-0280 0698-3150 0698-3150 0698-3150 0698-3150	37	R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 2.37K DHM 1% 1/8W R:FXD MET FLM 2.37K DHM 1% 1/8W R:FXD MET FLM 2.37K OHM 1% 1/8W R:FXD MET FLM 2.37K DHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0698-3150 0698-3150 0698-3150 0698-3150
R7 R8 R9 R10 R11	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150	į	R:FXD MET FLM 2.37K DHM 1% 1/8W R:FXD MET FLM 2.37K DHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150

Table 2-17. Memory Data and Control PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R13 R14 R15	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280
R18 R19 R20	0757-0280 0757-0280 0757-0280 0698-3150 0698-3150		R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 2.37K CHM 1% 1/8W R:FXO MET FLM 2.37K CHM 1% 1/8W	284 80 284 80 284 80 28 480 28 480	0757-0280 0757-0280 0757-0280 0698-3150 0698-3150
R23 P24 R25	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150 1810-0030	1	R:FXD MET FLM 2-37K OHM 1% 1/8W R:FXD MET FLM 2-37K OHM 1% 1/8W R:FXD MET FLM 2-37K OHM 1% 1/8W R:FXD MET FLM 2-37K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA	28480 28480 28480 28480 28480	0698-3150 0698-3150 0698-3150 0698-3150 1810-0030
	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150		R:FXO MET FLM 2.37K OHM 1% 1/8W R:FXO MET FLM 2.37K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150
P32 R33 R34 R35 R36	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150		R:FXO MET FLM 2.37K OHM 1% 1/8W R:FXO MET FLM 2.37K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150
R37 R38 R39 R40 R41	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150		R:FXO MET FLM 2.37K OHM 1% 1/8W R:FXO MET FLM 2.37K OHM 1% 1/8W	28450 28480 28480 28480 28480 28480	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150
R42 R43 R44 R45 P46	0T57-0280 0698-3150 075T-0280 0757-0280 0698-3150		R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 2.37K OHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 2.37K OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0280 0698-3150 0757-0280 0757-0280 0698-3150
R47 R48 R49 R50 R51	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150		R:FXO MET FLM 2.37K OHM 1% 1/8W R:FXO MET FLM 2.37K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3150 0698-3150 0698-3150 0698-3150 0698-3150
R52 R53 R54 R55 R56	0757-0280 0757-0280 0698-3160 0757-0401 0757-0401	1 4	R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 31.6K CHM 1% 1/8W R:FXO MET FLM 100 CHM 1% 1/8W R:FXO MET FLM 100 CHM 1% 1/8W	28 4 8 0 28 4 8 0 28 4 8 0 28 4 8 0 28 4 8 0	0757-0280 0757-0280 0698-3160 0757-0401 0757-0401
R57 R58 R59 S1 S1	0757-0401 2100-2514 0757-0401 3130-2687 3100-2687	1 2	R:FXO MET FLM 100 OMM 1% 1/8W R:VAR CERMET 20K OHM 10% LIM 1/2W R:FXO MET FLM 100 OHM 1% 1/8W SWITCH:ROTARY SP5T 6 POSITION SWITCH:ROTARY SP5T 6 POSITION	28480 28480 28480 28480 28480	0757-0401 2100-2514 0757-0401 3100-2687
U13 U15 U16 U17 U18	1820-0842 1820-0690 1820-0690 1820-0759 1820-0759	4 6 7	IC:TTL 8-BIT PARITY TREE IC:TTL SCHOTTKY QUAL 4-IMPT NAMO BUFFER IC:TTL SCHOTTKY DUAL 4-IMPT MAMO BUFFER IC:TTL LOM-POWER 8-BIT RECEIVER IC:TTL LOM-POWER 8-BIT RECEIVER	04713 01295 01295 28480 28480	MC4008P SN74540N SM74540N 1820-0759 1820-0759
U19 U23 U26 U27 U28	1820-0140 1820-0301 1820-0690 1820-0756 1820-0759	3 10 3	IC:TTL QUAL 4-INPT AND BUFFER IC:TTL QUAD 81-STABLE 0-LATCH IC:TTL SCMOTTKY QUAL 4-IMPT NAND BUFFER IC:TTL 8-BIT ORIVER INVERTING IC:TTL LOW-POWER 8-BIT RECEIVER	04713 01295 01295 28480 28480	MC3026P SN7475M SN74540M 1820-0756 1820-0759
U29 U33 U36 U37 U38	1820-0424 1820-0301 1820-0690 1820-0371 1820-0376	2 2 5	IC:TTL HS HEX INVERTER IC:TTL QUAO BI-STABLE O-LATCH IC:TTL SCHOTTKY QUAL 4-INPT NAMO BUFFER IC:TTL HS TRIPLE 3-IMPT NAMO GATE IC:TTL HS DUAL 4-IMPT MANO BUFFER	04713 01295 01295 01295 01295	SN74H04M SN7475N SM74540M SM74H10M SN74M40M
U39 U41 U43 U46 U47	1820-0629 1820-0756 1820-0301 1820-0690 1820-0370	5 3	IC:TTL SHS QUAL EDGE TRIG. J-K F/F IC:TTL 8-BIT ORIVER INVERTING IC:TTL QUAD 81-STABLE Q-LATCH IC:TTL SCHOTTKY QUAL 4-IMPT NAND BUFFER IC:TTL HS QUAO 2-IMPT MAND GATE	01 295 28480 01 295 01 295 01 295	SN74S112M 1820-0756 SN7475M SN74540N SN74H00M
U51 U52 U53 U55 U56	1820-0759 1820-0301 1820-0301 1820-0141 1820-0686	3 2	IC:TTL LOW-POWER 8-BIT RECEIVER IC:TTL OUAO 8I-STABLE O-LATCM IC:TTL OUAO 8I-STABLE O-LATCH IC:TTL OUAO 2-IMPT AMO GATE IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE	28480 01295 01295 04713 01295	1820-0759 SM7475M SN7475N MC3001P SN74511M

Table 2-17. Memory Data and Control PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U57 U58 U59 U61 U62	1820-0683 1820-0371 1820-0755 1820-0755 1820-0301	2 8	IC:TIL SCHOTTKY HEX INVERTER IC:TIL HS TRIPLE 3-INPT NANO GATE IC IC IC IC:7TL QUAO 81-STABLE O-LATCH	U1 295 01 295 28480 28480 01 295	SN74S04N SN74H10N 1820-0755 1820-0755 SN7475N
U63 U65 U69 U71 U72	1820-0842 1820-0140 1820-0755 1820-0755 1820-0301		IC:TIL 8-BIT PARITY TREE IC:TIL OUAL 4-INPT ANO SUFFER IC IC IC IC:TIL QUAD 81-STABLE O-LATCH	04713 04713 28480 28480 01295	MC4008P MC3026P 1820-0755 1820-0755 SN7475N
U73 U75 U76 U77 U78	1820-0140 1820-0629 1820-0239 1820-0842 1820-0301	10	IC:TTL OUAL 4-INPT AND SUFFER IC:TTL SHS OUAL EDGE TRIG. J-K F/F IC:TTL QUAD 2-INPT NOR GATE IC:TTL 8-BIT PARITY TREE IC:TTL OUAD BI-STABLE O-LATCH	04713 01295 28480 04713 01295	MC 3026P SN745112N 1820-0239 MC4008P SN7475N
U79 U81 U82 U85 U86	1820-0759 1820-0759 1820-0301 1820-0629 1820-0239		IC:TIL LOW-POWER 8-BIT RECEIVER IC:TIL LOW-POWER 8-BIT RECEIVER IC:TIL QUAD 8I-STABLE O-LATCH IC:TIL SHS OUAL EDGE TRIG. J-K F/F IC:TIL QUAD 2-INPT NOR GATE	28480 28480 01295 01295 28480	1820-0759 1820-0759 SN7475N SN745112N 1820-0239
บ87 บ88 บ89 บ91 บ92	1820-0301 1820-0370 1820-0755 1820-0756 1820-0141		IC:TTL QUAD 81-STABLE O-LATCH IC:TTL HS QUAD 2-INPT NAND GATE IC IC:TTL 8-BIT ORIVER INVERTING IC:TTL QUAD 2-INPT AND GATE	01295 01295 28480 28480 04713	SN7475N SN74H00N 1820-0755 1820-0756 HC3001P
U95 U96 U97 U98 U99	1820-0690 1820-0141 1820-0706 1820-0629 1820-0842	2	IC:TTL SCHOTTKY QUAL 4-INPT NANO BUFFER IC:TTL QUAD 2-INPT ANO GATE IC:DIGITAL TTL 5-BIT COMPARATOR IC:TTL SHS DUAL EDGE TRIG. J-K F/F IC:TTL 8-BIT PARITY TREE	01295 04713 04713 01295 04713	SN 74S40N MC 3001P U78932459X SN 74S112N MC 4008P
U102 U106 U107 U108 U109	1820-0608 1820-0370 1820-0629 1820-0608 1820-0706	2	IC:TTL 1 OF OECOOER W/ENASLE IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL SHS QUAL EOGE TRIG. J-K F/F IC:TTL I OF OECOOER W/ENASLE IC:OIGITAL TIL 5-8IT COMPARATUR	04713 01295 01295 04713 04713	HC 40 U6P SN 74H00N SN 74S112N MC 4006P U7 84 324 59X
U112 U113 U114 U115 U116	1620-0239 1820-0205 1820-0205 1820-0239 1820-0239	3	IC:TTL QUAO 2-INPT NOR GATE IC:TTL QUAO 2-INPT OR GATE IC:TTL QUAO 2-INPT OR GATE IC:TTL QUAO 2-INPT NOR GATE IC:TTL QUAO 2-INPT NOR GATE	28480 28480 28480 28480 28480	1820-0239 1820-0205 1820-0205 1820-0239 1820-0239
U117 U118 U122 U123 U124	1820-0239 1820-0376 1820-0239 1820-0239 1820-0239	!	IC:TTL QUAO 2-INPT NOR GATE IC:TTL HS DUAL 4-INPT NAND SUFFER IC:TTL QUAD 2-INPT NOR GATE IC:TTL QUAD 2-INPT NOR GATE IC:TTL QUAD 2-INPT NOR GATE	28480 01295 28480 28480 28480	1820-0239 \$N74H40N 1820-0239 1820-0239 1820-0239
U125 U126 U126 U131 U137	1820-0239 1820-0205 1820-0686 1820-0377 1820-0683	2	IC:TTL QUAO 2-INPT NOR GATE IC:TTL QUAO 2-INPT OR GATE IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE IC:TTL HS OUAL 2-WIDE 2-INPT IC:TTL SCHOTTKY HEX INVERTER	28480 28480 01295 01295 01295	1820-0239 1820-0205 SN74511N SN74H50N SN74S04N
U138 U135 U141 U147 U148	1820-0424 1820-0759 1820-0377 1820-0376 1820-0376		IC:TTL HS HEX INVERTER IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL HS OUAL 2-WIDE 2-INPT IC:TTL HS OUAL 4-INPT NANO BUFFER IC:TTL HS OUAL 4-INPT NANO BUFFER	04713 28480 01295 01295 01295	SN74H04N 1820-0759 SN74H50N SN74H40N SN74H40N
U149 U151 U159 U167 U165	1820-0755 1820-0207 1820-0755 1820-0376 1820-0755	1	IC IC:TTL MONOSTABLE MULTIVIBRATOR IC IC:TTL HS OUAL 4-INPT NANO BUFFER IC	28480 28480 28480 01295 28480	1820-0755 1820-0207 1820-0755 \$N74440N 1820-0755
W2 W3 W4 W5	5080-0058 5080-0058 5080-0058 5080-0058 5080-0058		CONDUCTOR ASSEMBLY:PLUG-IN JUMPER	28480 28480 28480 28480 28480	5080-0058 5080-0058 5080-0058 5080-0058 5080-0058

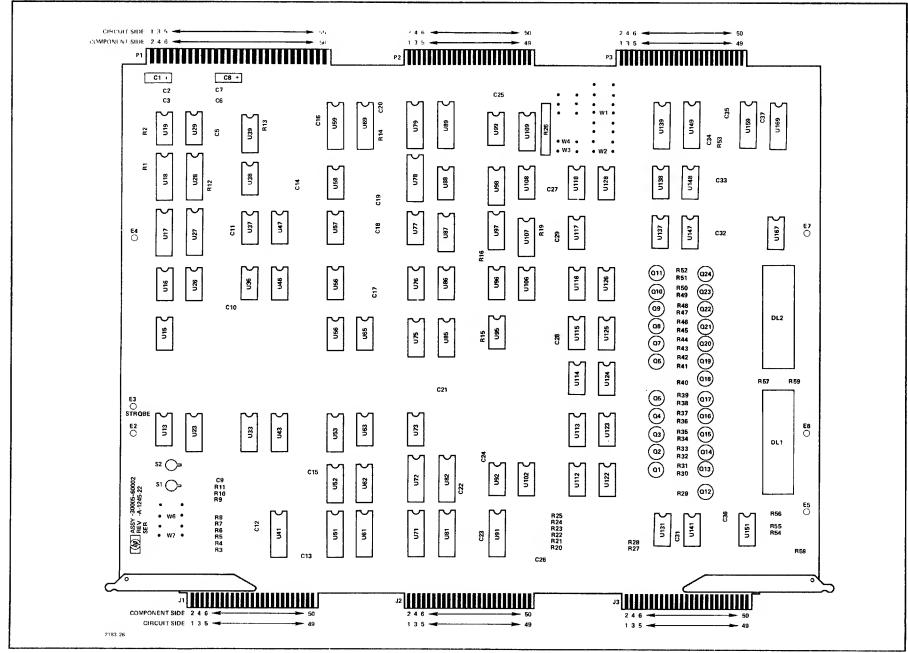


Figure 2-16. Memory Data and Control PCA, Parts Location Diagram

Table 2-18. Memory Drive and Sense PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30006-60001 0160-0127 0160-0127 0160-0127 0160-0127	1 27	MEMORY DRIVE AND SENSE PCA C=FXD CER 1.0 UF 20% 25VDCW C=FXD CER 1.0 UF 20% 25VOCW C=FXD CER 1.0 UF 20% 25VDCW C=FXO CER 1.0 UF 20% 25VDCW	56289 56289 56289 56289	30006-60001 5C13CS-CML 5C13CS-CML 5C13CS-CML 5C13CS-CML
C5	0160-0127		C:FXO CER 1-0 UF 20% 25VDCW	56289	5C13CS-CML
C6	0160-0127		C:FXD CER 1-0 UF 20% 25VDCW	56289	5C13CS-CML
C7	0160-0127		C:FXD CER 1-0 UF 20% 25VDCW	56289	5C13CS-CML
C8	0160-0127		C:FXO CER 1-0 UF 20% 25VDCW	56289	5C13CS-CML
C9	0160-0127		C:FXD CER 1-0 UF 20% 25VDCW	56289	5C13CS-CML
C10	0160-0127		C:FXD CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C11	0160-0127		C:FXD CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C12	0160-0127		C:FXD CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C13	0160-0127		C:FXD CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C14	0160-0127		C:FXD CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C15	0160-0127		C:FXD CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C16	0160-0127		C:FXO CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C17	0160-0127		C:FXO CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C18	0160-0127		C:FXD CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C19	0160-0127		C:FXD CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C20	0160-0127	6	C:FXO CER 1-0 UF 20% 25VDCW	56289	5C13CS-CML
C21	0160-0127		C:FXO CER 1-0 UF 20% 25VDCW	56289	5C13CS-CML
C22	0180-0374		C:FXO TANT- 10 UF 10% 20VCCW	56289	150D106X502082-DYS
C23	0180-0374		C:FXO TANT- 10 UF 10% 20VOCW	56289	150D106X502082-OYS
C24	0180-0374		C:FXO TANT- 10 UF 10% 20VDCW	56289	150D106X902082-OYS
C25	0180-0374	2	C:FXD TANT. 10 UF 10% 20VOCH	56289	1500106X902082-0YS
C26	0180-0374		C:FXD TANT. 10 UF 10% 20VDCH	56289	1500106X502082-0YS
C27	0180-0374		C:FXD TANT. 10 UF 10% 20VDCH	56289	1500106X502082-0YS
C28	0180-0116		C:FXO ELECT 6.8 UF 10% 35VDCH	56289	1500645X903582-0YS
C29	0160-0127		C:FXO CER 1.0 UF 20% 25VOCH	56289	5C13C5-CML
C30	0160-0127	3	C:FXO CER 1.0 UF 20% 25VOCM	56289	5C13CS-CML
C31	0160-0938		C:FXO MICA 1000 PF 5%	72136	ROM15E102J1C
C32	0160-0938		C:FXO MICA 1000 PF 5%	72136	RDM15E102J1C
C33	0160-0116		C:FXD ELECT 6.8 UF 10% 35VDCM	56289	150D685X503582-DYS
C34	0160-0127		C:FXO CER 1.0 UF 20% 25VOCM	56289	5C13CS-CML
C35	0160-0127	3	C:FXD CER 1.0 UF 20% 25VDCW	56289	5C13CS-CML
C37	0160-0938		C:FXD MICA 1000 PF 5%	72136	ROM15E102J1C
C38	0140-0198		C:FXO MICA 200 PF 5%	72136	ROM15F201J3C
C41	0160-0127		C:FXO CER 1.0 UF 20% 25VOCW	56289	5C13CS-CML
C42	0140-0198		C:FXO MICA 200 PF 5%	72136	ROM15F201J3C
C45 CR1 CR2 CR3 CR3é	J160-0127 1901-0016 1901-0016 1901-0620	2	C:FXO CER 1.0 UF 20% 25VOCW OIODE:SILICON 1N1566 OIODE:SILICON 1N1566 THRU DIODE BREAKOOWN	56289 04713 04713 28480	5C13CS-CML 1N1566 1N1566 1901-0620
CR37	1901-0040	32	OIODE:SILICON 50 MA 30 MV	07263	F0G1088
CR38	1901-0040		OIODE:SILICON 50 MA 30 WV	07263	F0G1088
CR39	1901-0040		OIODE:SILICON 50 MA 30 WV	07263	F0G1088
CR40	1901-0040		DIODE:SILICON 50 MA 30 WV	07263	F0G1088
CR41	1901-0040		DIODE:SILICON 50 MA 30 WV	07263	F0G1088
CR42	1901-0040		DIODE:SILICON 50 MA 30 WV	07263	FDG1088
CR43	1901-0040		DIODE:SILICON 50 MA 30 WV	07263	F0G1088
CR44	1901-0040		DIODE:SILICON 50 MA 30 WV	07263	F0G1088
CR45	1901-0040		DIODE:SILICON 50 MA 30 WV	07263	F0G1088
CR46	1901-0040		DIODE:SILICON 50 MA 30 WV	07263	F0G1088
CR47 CR48 CR49 CR50 C×51	1901-0040 1901-0040 1901-0040 1901-0040 1901-0040		DIUGE:SILICON 50 MA 30 MV OIGDE:SILICON 50 MA 30 MV OIGDE:SILICON 50 MA 30 MV DIOGE:SILICON 50 MA 30 MV OIGDE:SILICON 50 MA 30 MV	07263 07263 07263 07263 07263	F051088 F061088 F061088 FD61088 FD61088
CR52	1901-0040		DIDDE:SILICON 50 MA 30 MV	07263	FJG1088
CR53	1901-0040		DIDDE:SILICON 50 MA 30 MV	07263	FDG1088
CR54	1901-0040		DIDDE:SILICON 50 MA 30 MV	07263	FDG1088
CR55	1901-0040		DIDDE:SILICON 50 MA 30 MV	07263	FDG1088
CR56	1901-0040		DIDDE:SILICON 50 MA 30 MV	07263	FDG1088
CR57 CR58 CR59 CR60 CR61	1901-0040 1901-0040 1901-0040 1901-0040 1901-0040		DIDDE:SILICON 50 MA 30 MV DIODE:SILICON 50 MA 30 MV	07263 07263 07263 07263 07263	FDG1088 F0G1088 F0G1088 F0G1088 FDG1088 FDG1088
CR62	1901-0040		DIODE:SILICON 50 MA 30 MV	07263	FDG1088
CR63	1901-0040		0100E:SILICON 50 MA 30 MV	07263	FDG1088
CR64	1901-0040		0100E:SILICON 50 MA 30 MV	07263	FDG1088
.CR65	1901-0040		0100E:SILICON 50 MA 30 MV	07263	FDG1088
CR66	1901-0040		01UUE:SILICON 50 MA 30 MV	07263	FDG1088
CR53 CR54 CR55 CR56 CR57 CR58 CR59 CR60 CR61	1901-0040 1901-0040 1901-0040 1901-0040 1901-0040 1901-0040 1901-0040 1901-0040 1901-0040 1901-0040 1901-0040 1901-0040 1901-0040		DIODE:SILICON 50 MA 30 MV	07263 07263 07263 07263 07263 07263 07263 07263 07263 07263 07263 07263	F0G1088 F0G1088 F0G1088 F0G1088 F0G1088 F0G1088 F0G1088 F0G1088 FDG1088 FDG1088 FDG1088 FDG1088

Table 2-18. Memory Drive and Sense PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
CR67 CF68 O1 O2 O3	1901-0040 1901-0040 1854-0019 1854-0215 1854-0532	5 19 34	Olode:Silicon 50 MA 30 WV Olode:Silicon 50 MA 30 WV TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	07263 07263 28480 80131 02735	F061088 F061088 1854-0019 2N3904 2N5262
C4 Q5 Q6 Q7 Q8	1854-0532 1854-0532 1854-0532 1853-0036 1853-0036	36	TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP	02735 02735 02735 80131 80131	2N5262 2N5262 2N5262 2N3906 2N3906
C9 C10 C11 C12 C13	1854-3215 1853-0036 1853-0036 1854-3215 1854-0532		TSTR:S1 NPN TSTR:S1 PMP TSTR:S1 NPN TSTR:S1 NPN TSTR:S1 NPN	80131 80131 80131 80131 02735	2N3904 2N3906 2N3906 2N3904 2N5262
014 015 016 017 018	1854-0532 1854-0532 1854-0532 1853-0036 1853-0036		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP	02735 02735 02735 80131 80131	2N5262 2N5262 2N5262 2N3906 2N3906
019 020 021 022 023	1854-0215 1853-0036 1853-0036 1854-0215 1854-0532		TSTR:S1 NPN TSTR:S1 PNP TSTR:S1 PNP TSTR:S1 NPN TSTR:S1 NPN TSTR:S1 NPN	80131 80131 80131 80131 02735	2N3904 2N3906 2N3906 2N3904 2N3204
C24 025 026 027 028	1854-0532 1854-0532 1854-0532 1853-0036 1853-0036		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP	02735 02735 02735 02735 80131 80131	2N 52 62 2N 52 62 2N 52 62 2N 52 62 2N 39 06 2N 39 06
Q29 C30 Q31 Q32 Q33	1854-0215 1853-0036 1853-0036 1854-0215 1854-0532		TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP TSTR:SI NPN TSTR:SI NPN	80131 80131 80131 80131 02735	2N3904 2N3906 2N3906 2N3904 2N3904
034 035 036 037 038	1854-0532 1854-0532 1854-0532 1853-0036 1853-0036		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP	02735 02735 02735 02735 80131 80131	2N5262 2N5262 2N5262 2N3266 2N3906 2N3906
039 040 041 042 043	1854-0215 1853-0036 1853-0036 1854-0215 1854-0215		TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP TSTR:SI NPN TSTR:SI NPN	80131 80131 80131 80131 80131	2N 3904 2N 3906 2N 3906 2N 3904 2N 3904
044 045 046 047 048	1853-0036 1853-0036 1854-0215 1853-0036 1853-0036		TSTR:SI PNP TSTR:SI PNP TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP	80131 60131 80131 80131 80131	2N3906 2N3906 2N3904 2N3906 2N3906
049 050 051 052 053	1854-0532 1854-0532 1854-0532 1854-0532 1854-0532		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	02735 02735 02735 02735 02735 80131	2N5262 2N5262 2N5262 2N5262 2N5262 2N3904
054 055 056 057 058	1853-0036 1853-0036 1854-0215 1853-0036 1853-0036		TSTR:SI PNP TSTR:SI PNP TSTR:SI NPN TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP	80131 80131 80131 80131 80131	2N 3906 2N 3906 2N 3904 2N 3906 2N 3906
Q59 Q60 Q61 Q62 Q63	1854-0532 1854-0532 1854-0532 1854-0532 1854-0532		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	02735 02735 02735 02735 02735 80131	2N5262 2N5262 2N5262 2N5262 2N5262 2N3904
Q64 Q65 Q66 Q67 Q68	1853-0036 1853-0036 1854-0215 1853-0036 1853-0036		TSTR:SI PNP TSTR:SI PNP TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP TSTR:SI PNP	80131 80131 80131 80131 80131	2N3906 2N3906 2N3904 2N3906 2N3906
069 070 071 072 073	1854-0532 1854-0532 1854-0532 1854-0532 1854-0215		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	02735 02735 02735 02735 02735 80131	2N5262 2N5262 2N5262 2N5262 2N5262 2N3904

Table 2-18. Memory Drive and Sense PCA, Replaceable Parts (Continued)

	Table	Z-16. Wei	nory Drive and Sense PCA, Replaceable Parts (Contin	1	
Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
C74 O75 O76 C77 O78	1853-0036 1853-0036 1854-0215 1853-0036 1853-0036		TSTR:SI PNP TSTR:SI PNP TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP	80131 80131 80131 80131 80131	2N3906 2N3906 2N3904 2N3906 2N3906
079 080 081 082 083	1854-0532 1854-0532 1854-0532 1854-0532 1854-0215		TSTR:SL NPN TSTR:SL NPN TSTR:SL NPN TSTR:SL NPN TSTR:SL NPN TSTR:SL NPN	02735 02735 02735 02735 02735 80131	2N 52 62 2N 52 62 2N 52 62 2N 52 62 2N 39 04
084 085 086 067 088	1853-0036 1853-0036 1854-0532 1854-0532 1854-0019		TSTR:SI PNP TSTR:SI PNP ISTR:SI NPN TSTR:SI NPN TSTR:SI NPN	80131 80131 02735 02735 28480	2N3906 2N3906 2N5262 2N5262 1854-0019
089 090 091 092 093	1853-0034 1854-0019 1853-0034 1854-0019 1853-0034	4	TSTR:SI PNP(SELECTEO FROM 2N3251) TSTR:SI NPN TSTR:SI PNP(SELECTEO FROM 2N3251) TSTR:SI NPN TSTR:SI PNP(SELECTEO FROM 2N3251)	28480 28480 28480 28480 28480	1853-0034 1854-0019 1853-0034 1854-0019 1853-0034
094 095 096 097 098	1854-0019 1853-0034 1854-0215 1853-0036 1853-0036		TSTR:SI NPN TSTR:SI PNP(SELECTEO FROM 2N3251) TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP	28480 28480 80131 80131 80131	1854-0019 1853-0034 2N3904 2N3906 2N3906
R1 R2 R3 R4 R5	2100-2632 0757-0180 0698-3446 0757-0402 0698-3440	1 1 1 1 42	R:VAR FLM 100 OHM 10% L1N 1/2W R:FXO MET FLM 31.6 OHM 1% 1/8W R:FXO MET FLM 383 OHM 1% 1/8W R:FXO MET FLM 110 OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W	28480 28480 28480 28480 28480	2100-2632 0757-0180 0698-3446 0757-0402 0698-3440
R6 R7 R8 R9 R10	0698-3440 0757-0394 0698-3440 0698-3440 0757-0394	19	R:FXO MET FLM 196 OHM 1% 1/8W R:FXO MET FLM 51.1 OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 51.1 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3440 0757-0394 0698-3440 0698-3440 0757-0394
R11 R12 R13 R14 R15	0698-3437 0757-0420 0698-3437 0757-0420 0757-0394	2 6	R:FXO MET FLM 133 OHM 1% 1/8W R:FXO MET FLM 750 OHM 1% 1/8W R:FXO MET FLM 133 OHM 1% 1/8W R:FXO MET FLM 750 OHM 1% 1/8W R:FXO MET FLM 51.1 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3437 0757-0420 0698-3437 0757-0420 0757-0394
R16 R17 R18 R19 R19	0757-0394 0757-0403 0698-3440 0757-0403 0757-0403	67	R:FXO MET FLM 51.1 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0394 0757-0403 0698-3440 0757-0403 0757-0403
R20 R21 R22 R23 R24	0698-3440 0757-0403 0698-3440 0757-0403 0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 196 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3440 0757-0403 0698-3440 0757-0403 0698-3440
R25 R26 R27 R28 R29	0698-7310 0698-3445 0698-7310 0757-0290 0757-0401	34 17 17 4	R:FXO FLM 1.65K DHM 0.25% 1/8W R:FXO MET FLM 348 DHM 1% 1/8W R:FXO FLM 1.65K DHM 0.25% 1/8W R:FXO MET FLM 6.19K DHM 1% 1/8W R:FXD MET FLM 100 DHM 1% 1/8W	28480 28480 28480 28480 28480	0698-7310 0698-3445 0698-7310 0757-0290 0757-0401
R30 R31 R32 R33 R34	0698-7310 0698-3445 0698-7310 0757-0290 0757-0401		R:FXO FLM 1-65K OHM 0-25% 1/8W R:FXD MET FLM 348 OHM 1% 1/8W R:FXO FLM 1-65K OHM 0-25% 1/8W R:FXO MET FLM 6-19K OHM 1% 1/8W R:FXO MET FLM 100 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-7310 0698-3445 0698-7310 0757-0290 0757-0401
R35 R36 R37 R38 R39	0757-0394 0757-0394 0757-0403 0698-3440 0757-0403		R:FXO MET FLM 51.1 OHM 1% 1/8W R:FXO MET FLM 51.1 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W	284 60 26 480 284 80 284 80 284 80	0757-0394 0757-0394 0757-0403 0698-3440 0757-0403
R40 R41 R42 R43 R44	0698-3440 0757-0403 0698-3440 0757-0403 0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W	28 4 80 28 4 80 28 4 80 28 4 80 28 4 80	0698-3440 0757-0403 0698-3440 0757-0403 0698-3440
R45 R46 R47 R48 R49	0698-7310 0698-3445 0698-7310 0757-0290 0757-0401		R:FXO FLM 1.65K OHM 0.25% 1/8M R:FXO MET FLM 348 OHM 1% 1/8M R:FXO FLM 1.65K DHM 0.25% 1/8M R:FXO MET FLM 6.19K OHM 1% 1/8W R:FXO MET FLM 100 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-7310 0698-3445 0698-7310 0757-0290 0757-0401
	,				

Table 2-18. Memory Drive and Sense PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R5D R51 R52 R53 R54	0698-7310 0698-3445 0698-7310 0757-0290 0757-0401		R:FXO FLM 1.65K DHM 0.25% 1/8W R:FXO MET FLM 348 QHM 1% 1/8W R:FXO FLM 1.65K DHM 0.25% 1/8W R:FXO MET FLM 6.19K DHM 1% 1/8W R:FXO MET FLM 6.00 DHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-7310 0698-3445 0698-7310 0757-0290 0757-0401
R55	0757-0394		R:FXO MET FLM 51-1 OHM 1% 1/6W	28480	0757-0394
R56	0757-0394		R:FXO MET FLM 51-1 OHM 1% 1/6W	28480	0757-0394
R57	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R58	0698-3440		R:FXD MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R59	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R60	0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R61	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R62	0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R63	0757-0403		R:FXO MET FLM 121 DHM 1% 1/8W	28480	0757-0403
R64	0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R65	0698-7310		R=FXD FLM 1=65K OHM 0=25% 1/8W	28 480	0698-7310
R66	0698-3445		R=FXD NET FLM 348 OHM 1% 1/8W	28 480	0698-3445
R67	0698-7310		R=FXO FLM 1=65K OHM 0=25% 1/8W	28 480	0698-7310
R68	0757-0290		R=FXO MET FLM 6=19K OHM 1% 1/8W	28 480	0757-0290
R70	0698-7310		R=FXD FLM 1=65K OHM 0=25% 1/8W	28 480	0698-7310
R71	0698-3445		R:FXD MET FLM 348 OHM 1% 1/8W	284 80	0698-3445
R72	0698-7310		R:FXO FLM 1.65K OHM 0.25% 1/8W	284 80	0698-7310
R73	0757-0290		R:FXO MET FLM 6.19K OHM 1% 1/8W	284 80	0757-0290
R75	0757-0394		R:FXO MET FLM 51.1 OHM 1% 1/8W	284 80	0757-0394
R76	0757-0394		R:FXO MET FLM 51.1 OHM 1% 1/8W	284 80	0757-0394
R77 R78 R79 R80 R81	0757-0403 0698-3440 0757-0403 0698-3440 0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0403 0698-3440 0757-0403 0698-3440
R82 R83 R84 R85 R86	0698-3440 0757-0403 0698-3440 0698-7310 0698-3445		R:FXD MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 196 DHM 1% 1/8W R:FXO FLM 1-65K DHM 0.25% 1/8W R:FXD MET FLM 348 DHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-3440 0757-0403 0698-3440 0698-7310 0698-7345
R87	0698-7310		R:FXO FLM 1.65K DHM 0.25% 1/8W	28480	0698-7310
R88	0757-0290		R:FXO MET FLM 6.19K DHM 1% 1/8W	28460	0757-0290
R90	0698-7310		R:FXO FLM 1.65K DHM 0.25% 1/8W	28480	0698-7310
R91	0698-3445		R:FXO MET FLM 348 DHM 1% 1/6W	28480	0698-3445
R92	0698-7310		R:FXD FLM 1.65K DHM 0.25% 1/8W	28480	0698-7310
R93	0757-0290		R:FXO MET FLM 6-19K OHM 1% 1/8W	28480	0757-0290
R96	0757-0290		R:FXD MET FLM 6-19K DHM 1% 1/8W	28480	0757-0290
R97	0698-7310		R:FXO FLM 1-65K DHM 0-25% 1/8W	28480	0698-7310
R98	0698-3445		R:FXD MET FLM 348 DHM 1% 1/6W	28480	0698-3445
R99	0698-7310		R:FXD FLM 1.65K DHM 0-25% 1/8W	28480	0698-7310
R101 R102 R103 R104 R105	0757-0290 0698-731 0 0698-3445 0698-3440		R:FXO MET FLM 6-19K OHM 1% 1/8W R:FXO FLM 1-65K OHM 0-25% 1/8W R:FXO MET FLM 348 OHM 1% 1/8W R:FXO FLM 1-65K DHM 0-25% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0290 0698-7310 0698-3445 0698-7310 0698-73440
R106	0757-0403		R:FXD MET FLM 121 OHM 12 1/8W	28480	0757-0403
R107	0698-3440		R:FXO MET FLM 196 OHM 12 1/8W	28480	0698-3440
R108	0757-0403		R:FXO MET FLM 121 OHM 12 1/8W	28480	0757-0403
R109	0698-3440		R:FXD MET FLM 196 OHM 12 1/8W	28480	0698-3440
R110	0757-0403		R:FXO MET FLM 191 OHM 12 1/8W	28480	0757-0403
R111	0698-3440		R:FXO MET FLM 196 DHM 1% 1/8W	28480	0698-3440
R112	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R113	0757-0394		R:FXO MET FLM 51-1 OHM 1% 1/8W	28480	0757-0394
R114	0757-0394		R:FXO MET FLM 51-1 OHM 1% 1/8W	28480	0757-0394
R116	0757-0290		R:FXO MET FLM 6.19K OHM 1% 1/8W	28480	0757-0290
R117	0698-7310		R:FXO FLM 1.65K DHM 0.25% 1/8W	28480	0698-7310
R118	0698-3445		R:FXD MET FLM 348 OHM 1% 1/8W	28480	0698-7310
R119	0698-7310		R:FXD FLM 1.65K OHM 0.25% 1/8W	28480	0698-7310
R121	0757-0290		R:FXD MET FLM 6.19K OHM 1% 1/8W	28480	0757-0290
R122	0698-7310		R:FXD FLM 1.65K DHM 0.25% 1/8W	28480	0698-7310
R123	0698-3445		R:FXO MET FLM 348 OHM 1% 1/8W	28480	0698-3445
R124	0698-731D		R:FXO FLM 1.65K OHM 0.25% 1/8W	28480	0698-7310
R125	0698-3440		R:FXO MET FLM 196 OHM 1% 1/6W	28480	0698-3440
R126	0757-0403		R:FXO MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R127	0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R128	0757-0403		R:FXO MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R129	0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R130	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R131	0698-3440		R:FXD MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R132	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403

Table 2-18. Memory Drive and Sense PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
R133	0757-0394		R:FXO MET FLM 51.1 OHM 1% 1/8W	28480	0757-0394
R134	0757-0394		R:FXO MET FLM 51.1 OHM 1% 1/8W	28480	0757-0394
R136	0757-0290		R:FXO MET FLM 6.19K OHM 1% 1/8W	28480	0757-0290
R137	0698-7310		R:FXO FLM 1.65K OHM 0.25% 1/8W	28480	0698-7310
R138	0698-3445		R:FXO MET FLM 348 OHM 1% 1/8W	28480	0698-3445
R135	0698-7310		R:FXD FLM 1.65K OHM 0.25% 1/8W	28480	0698-7310
R141	0757-0290		R:FXO MET FLM 6.19K OHM 1% 1/8W	28480	0757-0290
R142	0698-7310		R:FXD FLM 1.65K OHM 0.25% 1/8W	28480	0698-7310
R143	0698-3445		R:FXD MET FLM 348 OHM 1% 1/8W	28480	0698-3445
R144	0698-7310		R:FXD FLM 1.65K OHM 0.25% 1/8W	28480	0698-7310
R145	0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R146	0757-0403		R:FXO MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R147	0698-3440		R:FXD MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R148	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R149	0698-3440		R:FXD MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R150	0757-0403		R:FXO MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R151	0698-3440		R:FXD MET FLM 196 OHM 1% 1/8W	28480	0698-3440
R152	0757-0403		R:FXO MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R153	0757-0394		R:FXO MET FLM 51-1 OHM 1% 1/8W	28480	0757-0394
R154	0757-0394		R:FXO MET FLM 51-1 OHM 1% 1/8W	28480	0757-0394
R156 R157 R158 R159 R161	0757-0290 0698-7310 0698-3445 0698-7310 0757-0290		R:FXO MET FLM 6.19K DHM 1% 1/8W R:FXD FLM 1.65K DHM 0.25% 1/8W R:FXD MET FLM 348 DHM 1% 1/8W R:FXD FLM 1.65K DHM 0.25% 1/8W R:FXD MET FLM 6.19K DHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0290 0698-7310 0698-3445 0698-7310 0757-0290
R162	0698-7310		R:FXD FLM 1-65K OHM 0-25% 1/8W	28 480	0698-7310
R163	0698-3445		R:FXD MET FLM 348 DHM 1% 1/8W	28 4 80	0698-3445
R164	0698-7310		R:FXO FLM 1-65K OHM 0-25% 1/8W	28 4 80	0698-7310
R165	0698-3440		R:FXD MET FLM 196 DHM 1% 1/8W	28 4 80	0698-3440
R166	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28 4 80	0757-0403
R167 R168 R169 R170 R171	0698-3440 0757-0403 0698-3440 0757-0403 0698-3440		R:FXD MET FLM 196 DHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 196 DHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-3440 0757-0403 0698-3440 0757-0403 0698-3440
R172	0757-0403		R:FXO MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R173	0757-0394		R:FXO MET FLM 51-1 OHM 1% 1/8W	28480	0757-0394
R174	0757-0394		R:FXO MET FLM 51-1 OHM 1% 1/8W	28480	0757-0394
R176	0757-0290		R:FXO MET FLM 6-19K OHM 1% 1/8W	28480	0757-0290
R177	0698-7310		R:FXO FLM 1-65K OHM 0-25% 1/8W	28480	0698-7310
R178	0698-3445		R:FXO MET FLM 348 DHM 1% 1/8W	28480	0698-3445
R175	0698-7310		R:FXO FLM 1.65K DHM 0.25% 1/8W	28480	0698-7310
R180	0698-3440		R:FXD MET FLM 196 DHM 1% 1/8W	28480	0698-3440
R181	0757-0403		R:FXD MET FLM 121 DHM 1% 1/8W	28480	0757-0403
R182	0698-3440		R:FXD MET FLM 196 DHM 1% 1/8W	28480	0698-3440
R183 R184 R185 R186 R187	0757-0403 0757-0394 0698-3444 0757-0403	16	R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 51.1 OHM 1% 1/8W R:FXD MET FLM 316 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0403 0757-0394 0698-3444 0757-0403 0757-0403
R188	0698-3444		R:FXD MET FLM 316 UHM 1% 1/8W	284 E0	0698-3444
R185	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	284 80	0757-0403
R190	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	284 80	0757-0403
R191	0698-3444		R:FXD MET FLM 316 OHM 1% 1/8W	284 8D	0698-3444
R192	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	284 8D	0757-0403
R193 R194 R195 R196 R197	0757-0403 0698-3444 0757-0403 0757-0403 0698-3435	32	R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 316 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 38-3 OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0403 0698-3444 0757-0403 0757-0403 0698-3435
R198 R195 R200 R201 R202	0698-3435 0698-3435 0698-3435 0698-3435 0698-3435		R:FXD MET FLM 38-3 OHM 1% 1/8W R:FXD MET FLM 38-3 OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	06 98-3435 06 98-3435 06 98-3435 06 98-3435 06 98-3435
R203 R204 R205 R206 R207	06 98 -3435 06 98 -3435 06 98 -3444 0757 -0403 0757 -0403		R:FXD MET FLM 38.3 DHM 1% 1/8W R:FXO MET FLM 38.3 DHM 1% 1/8W R:FXD MET FLM 316 DHM 1% 1/8W R:FXD MET FLM 121 DHM 1% 1/8W R:FXO MET FLM 121 DHM 1% 1/8W	2848D 28480 2848D 2848D 28480 28480	0698-3435 0698-3435 0698-3444 0757-0403 0757-0403
R208	0698-3444		R:FXD MET FLM 316 DHM 1% 1/8W	284 ED	0698-3444
R209	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	284 8D	0757-0403
R210	0757-0403		R:FXD MET FLM 121 DHM 1% 1/8W	284 80	0757-0403
R211	0698-3444		R:FXD MET FLM 316 OHM 1% 1/8W	284 80	0658-3444
R212	0757-0403		R:FXD MET FLM 321 DHM 1% 1/8W	284 80	0757-0403
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Table 2-18. Memory Drive and Sense PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R213	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
	0698-3444		R:FXO MET FLM 316 OHM 1% 1/8W	28480	0698-3444
	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
	0698-3435		R:FXD MET FLM 38.3 OHM 1% 1/8W	28480	0698-3435
	0698-3435		R:FXO MET FLM 38.3 DHM 1# 1/8W	28 4 80	0698-3435
	0698-3435 0698-3435		R:FXO MET FLM 38.3 DHM 1% 1/8W R:FXD MET FLM 38.3 DHM 1% 1/8W	28460 28480	0698-3435 0698-3435
R221	0698-3435		R:FXO MET FLM 38.3 OHM 1% 1/8W	28480	0698-3435
R22 2	0698-3435		R:FXD ME7 FLM 38.3 DHM 1% 1/8W	28480	0698-3435
	0698-3435 0698-3435		R:FXD MET FLM 38.3 OHM 1% 1/8W R:FXO MET FLM 38.3 OHM 1% 1/8W	28480 28480	0698-3435 0698-3435
	0698-3444		R:FXD MET FLM 316 OHM 12 1/8W	28480	0698-3444
	0757-0403		R:FXD MET FLM 121 DHM 1% 1/8W	28480	0757-0403
R227	0757-0403		R:FXO MET FLM 121 OHM 1% 1/8W	28480	0757-0403
	0698-3444		R:FXD MET FLM 316 DHM 1% 1/8W	28480	0698-3444
	0757-0403 0757-0403		R:FXO MET FLM 121 DHM 1% 1/8W R:FXD MET FLM 121 DHM 1% 1/8W	28480 28480	0757-0403 0757-0403
	0698-3444		R:FXO MET FLM 316 OHM 1% 1/8W	28480	0698-3444
	0757-0403		R:FXO MET FLM 121 DHM 1% 1/8W	28 4 80	0757-0403
	0757-0403		R:FXO MET FLM 121 DHM 17 1/8W	28480	0757-0403
	0698-3444		R:FXD MET FLM 316 OHM 1% 1/8W	28480	0698-3444
	0757-0403 0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
	0698-3435		R:FXD MET FLM 38.3 DHM 1% 1/8W	28480 28480	0757-0403 0698-3435
	0698-3435		R:FXD MET FLM 38.3 OHM 1% 1/8W	28 480	0698-3435
R239	0698-3435		R:FXD MET FLM 38.3 DHM 1% 1/8W	28480	0698-3435
	0698-3435		R:FXO MET FLM 38.3 OHM 1% 1/8W	28480	0698-3435
	0698-3435 0698-3435		R:FXO MET FLM 38.3 OHM 1% 1/8W R:FXO MET FLM 38.3 OHM 1% 1/8W	28480 28480	0698-3435 0698-3435
R243	0698-3435		R:FXO MET FLM 38.3 DHM 1% 1/8W	28480	0698-3435
	0698-3435		R:FXD NET FLM 38.3 OHM 1% 1/8W	28480	0698-3435
R245	0698-3444		R:FXO MET FLM 316 DHM 1% 1/8W	28480	0698-3444
	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
1	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
	0698-3444 0757-0403		R:FXD MET FLM 316 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W	28480 28480	0698-3444 0757-0403
	0757-0403		R:FXD MET FLM 121 OHM 1% 1/8W	28480	0757-0403
R251	0698-3444 0757-0403		R:FXO MET FLM 316 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W	28480 2848D	0698-3444 0757-0403
1					1
	0757-0403 0698-3444		R:FXO MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 316 DHM 1% 1/8W	28480	0757-0403
	0757-0403		R:FXD ME7 FLM 121 DHM 1% 1/8W	28480 28480	0698-3444 0757-0403
	0757-0403		R:FXO HET FLM 121 OHM 1% 1/8W	28 4 80	0757-0403
	0698-3435		R:FXD MET FLM 38.3 OHM 1% 1/8W	28480	0698-3435
	0698-3435		R:FXO MET FLM 38.3 DHM 1% 1/8W	28480	0698-3435
	0698-3435		R:FXD MET FLM 38.3 DHM 1% 1/8W	28480	0698-3435
	0698-3435 0698-3435		R:FXO MET FLM 38.3 OHM 1% 1/8W R:FXO ME7 FLM 38.3 OHM 1% 1/8W	28 480	0698-3435 0698-3435
	0698-3435		R:FXO MET FLM 38.3 DHM 12 1/8W	28460 28480	0698-3435
	0698-3435		R:FXD MET FLM 38.3 OHM 1% 1/8W	28480	0698-3435
	0698-3435		R:FXO MET FLM 38.3 DHM 1% 1/8W	28480	0698-3435
	0811-2614	4	R:FXO WW 37 OHM 1% 5W R:FXO WW 37 OHM 1% 5W	28480	0811-2614
	0811-2614 0757-0397	8	R:FXO MET FLM 68+1 OHM 1% 1/8W	28480 28480	0811-2614 0757-0397
R268	J698-0084	4	R:FXD MET FLM 2.15K OHM 1% 1/8W	28480	0698-0084
R269	0757-0397		R:FXD MET FLM 68.1 DHM 13 1/8W	28480	0757-0397
	0698-3440		R:FXO MET FLM 196 OHM 17 1/8W	28480	0698-3440
	0757-0420 0757-0397		R:FXO MET FLM 750 OHM 1% 1/8W R:FXO MET FLM 68.1 OHM 1% 1/8W	28480 28480	0757-0420 0757-0397
R273	06 98-0084		R:FXO MET FLM 2.15K OHM 1% 1/8W	284 50	0698-0084
R274	0757-0397		R:FXO MET FLM 68.1 OHM 1% 1/8W	28480	0757-0397
	0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W	28480	0698-3440
	0757-0420 0811-2614		R:FXO MET FLM 750 OHM 1% 1/8W R:FXD WW 37 OHM 1% 5W	28480 28480	0757-0420 0811-2614
	0811-0563 0757-0397		R:FXD ww 33 OHM 1% 5W R:FXO MET FLM 68.1 DHM 1% 1/8W	28480 28480	0811-0563 0757-0397
	0698-0084		R:FXD MET FLM 2.15K DHM 1% 1/8W	28480	0698-0084
R281	0757-0397		R:FXO MET FLM 68.1 OHM 1% 1/8W	28480	0757-0391
R282	0698-3440		R:FXO MET FLM 196 OHM 1% 1/8W	28480	0698-3440
	0757~0420		R:FXO HET FLM 750 DHN 1% 1/8W	28480	0757-0420
	0757-0397 0698-0084		R:FXD MET FLM 68.1 OHM 1% 1/8W R:FXD MET FLM 2.15K DHM 1% 1/8W	28480 28480	0757-0397 0698-0084
	0757-0397		R:FXD MET FLM 68.1 OHM 1% 1/8W	28480	0757-0397
	0698-3440		R:FXD HET FLM 196 DHM 1% 1/8W	28480	0698-3440
		L	I		

Table 2-18. Memory Drive and Sense PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R288 T1 T2 T3 T4	0757-0420 0960-0111 0960-0111 0960-0111	17	R:FXO MET FLM 750 DHM 1% 1/6W 8ALUN MODULE 8ALUN MODULE 8ALUN MODULE BALUN MODULE BALUN MODULE	28480 28480 28480 28480 28480	0757-0420 0960-0111 0960-0111 0960-0111 0960-0111
15 16 17 18 19	0960-0111 0960-0111 0960-0111 0960-0111 0960-0111		8ALUN MOOULE 8ALUN MOOULE BALUN MOOULE 8ALUN MOOULE 8ALUN MOOULE 8ALUN MOOULE	28 480 28 480 28 480 28 480 28 480	0960-0111 0960-0111 0960-0111 0960-0111 0960-0111
T10 T11 T12 T13 T14	0960-0111 0960-0111 0960-0111 0960-0111 0960-0111		8ALUN MOOULE 8ALUN MODULE 8ALUN MOOULE 8ALUN MOOULE 8ALUN MOOULE 8ALUN MOOULE	28480 28480 28480 28480 28480	0960-0111 0960-0111 0960-0111 0960-0111 0960-0111
T15 T16 T17 U1 U2	0960-0111 0960-0111 0960-0111 1820-0205 1820-0239	1 3	BALUN MOOULE BALUN MOOULE BALUN MOOULE IC:ITL QUAO 2-INPT OR GATE IC:ITL QUAO 2-INPT NOR GATE	28480 28480 28480 28480 28480	0960-0111 0960-0111 0960-0111 1820-0205 1820-0239
U4 U5 U6 U7 U8	1820-3621 1858-0001 1858-0001 9100-3180 1820-0621	9 17	IC:TTL QUAO 2-1NPT NANO BUFFER W/OPEN C TSTR ARRAY:DUAL OIFF AMPL W/CONST CUR TSTR ARRAY:DUAL OIFF AMPL W/CONST CUR TRANSFORMER IC:TTL QUAO 2-INPT NANO BUFFER W/OPEN C	01 295 02 735 02 735 28 480 01 295	SN 74-38N 80-381 80-381 91-00-31-80 SN 74-38N
U9 U10 U11 U12 U13	1858-0001 1858-0001 9100-3180 1820-0621 1858-3001		TSTR ARRAY:OUAL OIFF AMPL W/CONST CUR TSTR ARRAY:OUAL DIFF AMPL W/CONST CUR TRANSFORMER IC:TTL OUAD 2-INPT NAND BUFFER W/DPEN C TSTR ARRAY:DUAL OIFF AMPL W/CDNST CUR	02735 02735 28480 01295 02735	80381 80381 9100-3180 SN7438N 80381
U14 U15 U16 U17 U18	1858-0001 9100-3180 1820-0621 1858-0001 1858-0001		TSTR ARRAY:OUAL OIFF AMPL W/CONST CUR TRANSFORMER 1C:TTL QUAO 2-1NPT NAND 8UFFER W/OPEN C TSTR ARRAY:DUAL DIFF AMPL W/CONST CUR TSTR ARRAY:DUAL DIFF AMPL W/CONST CUR	02735 28480 01295 02735 02735	80381 9100-3180 SN7438N 80381 80381
U19 U20 U21 U22 U23	1858-0001 1858-0001 1820-0621 9100-3180 1858-0001		TSTR ARRAY:OUAL DIFF AMPL W/CONST CUR TSTR ARRAY:OUAL DIFF AMPL W/CONST CUR IC:TTL QUAD 2-INPT NANO BUFFER W/OPEN C TRANSFORMER TSTR ARRAY:OUAL DIFF AMPL W/CONST CUR	02735 02735 01295 28480 02735	80381 80381 SN7438N 9100-3180 80381
U24 U25 U26 U27 U28	18 58-0001 18 20-06 21 91 00-31 80 18 58-0001 18 58-0001		TSTR ARRAY:OUAL OIFF AMPL W/CONST CUR ICITIL OUAO 2-1NPT NANO BUFFER W/OPEN C TRANSFORMER TSTR ARRAY:DUAL OIFF AMPL W/CONST CUR TSTR ARRAY:DUAL OIFF AMPL W/CONST CUR	02735 01295 28480 02735 02735	80381 SN7438N 9100-3180 80381 80381
U29 U30 U31 U32 U33	1820-0621 9100-3180 1858-0001 1858-0001 1820-0621		IC:TTL QUAD 2-INPT NANO 8UFFER W/OPEN C TRANSFORMER TSTR ARRAY:DUAL OIFF AMPL W/CONST CUR TSTR ARRAY:DUAL OIFF AMPL W/CONST CUR IC:TTL OUAD 2-INPT NAND BUFFER W/OPEN C	01295 28480 02735 02735 01295	SN7438N 9100-3180 80381 80381 SN7438N
U34 U35 U36 U37 U38	91 J0-31 80 18 58-0001 18 20-06 21 91 00-31 80 18 21-0006	8	TRANSFORMER TSTR ARRAY:DUAL OIFF AMPL W/CONST CUR IC:TTL QUAD 2-INPT NAND BUFFER W/DPEN C TRANSFORMER TSTR ARRAY:SI NPN OUAG	28480 02735 01295 28480 28480	9100-3180 80381 SN7438N 9100-3180 1821-0006
U39 U40 U41 U42 U43	9100-3130 1821-0006 9100-3130 1820-0756 1820-0608	6 4 2	TRANSFORMER: PULSE TSTR ARRAY:SI NPN OUAO TRANSFORMER: PULSE IC:TTL 8-8IT ORIVER INVERTING IC:TTL 1 OF OECOOER W/ENABLE	28 480 28 480 28 480 28 480 047 13	9100-3130 1821-0006 9100-3130 1820-0756 MC4006P
U44 U45 U46 U47 U48	1821-0006 9100-3130 1821-0006 9100-3130 1820-0756		TSTR ARRAY:SI NPN QUAD TRANSFORMER:PULSE TSTR ARRAY:SI NPN QUAQ TRANSFORMER:PULSE 1C:TTL 8-8IT ORIVER INVERTING	28480 28480 28480 28480 28480	1821-0006 9100-3130 1821-0006 9100-3130 1820-0756
U49 U50 U51 U52 U53	1820-0608 1821-0006 9100-3130 1821-0006 9100-3130		IC:TTL 1 OF OECODER W/ENABLE TSTR ARRAY:S1 NPN QUAD TRANSFORMER:PULSE TSTR ARRAY:S1 NPN QUAD TRANSFORMER:PULSE	04713 28480 28480 28480 28480	MC4006P 1821-0006 9100-3130 1821-0006 9100-3130
U54 U55 U56 U57 U58	1820-0756 1820-0239 1821-0006 9100-3130 1821-0006		IC:TTL 8-8IT DRIVER INVERTING IC:TTL QUAD 2-INPT NDR GATE TSTR ARRAY:SI NPN QUAD TRANSFORMER:PULSE TSTR ARRAY:SI NPN QUAD	28480 28480 28480 28480 28480	1820-0756 1820-0239 1821-0006 9100-3130 1821-0006

Table 2-18. Memory Drive and Sense PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U59 U60 U61 W1 W2	9100-3130 1820-0756 1820-0239 5040-1485 5040-1485 5040-1485	3	TRANSFORMER: PULSE IC:TTL 8-8IT ORIVER INVERTING IC:TTL QUAO 2-INPT NOR GATE CONDUCTOR ASSEMBLY:PLUG-IN JUMPER CONDUCTOR ASSEMBLY:PLUG-IN JUMPER CONDUCTOR ASSEMBLY:PLUG-IN JUMPER	28480 28480 28480 28480 28480 28480	9100-3130 1820-0756 1820-0239 5040-1485 5040-1485

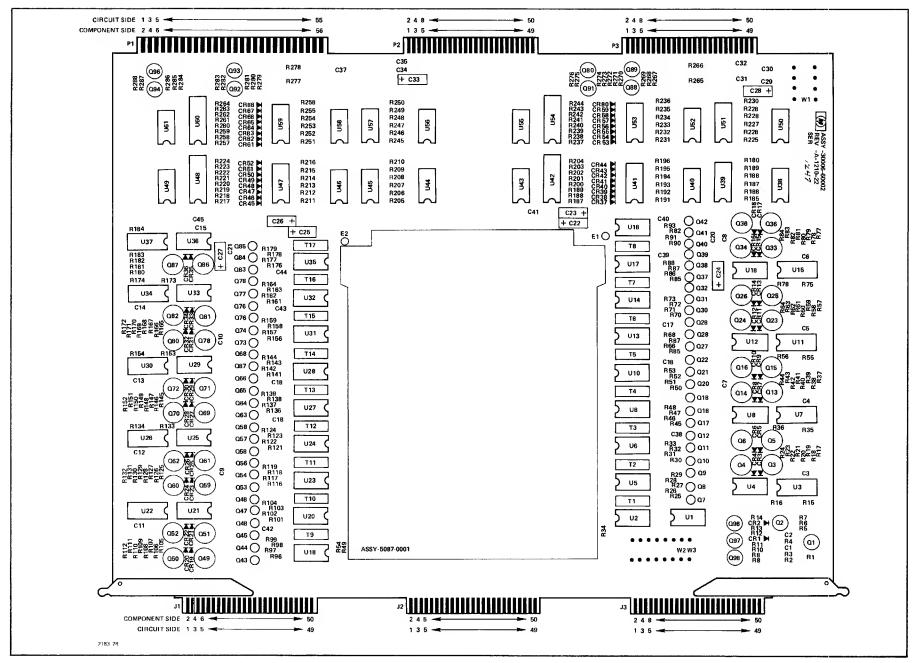


Figure 2-17. Memory Drive and Sense PCA, Parts Location Diagram

Table 2-19. Selector Channel Register PCA, Replaceable Parts

Table 2-20. Selector Channel Control PCA, Replaceable Parts

Table 2-21. Selector Channel Port PCA, Replaceable Parts

Table 2-22. Selector Channel Maintenance PCA, Replaceable Parts

Figure 2-21. Selector Cliannel Maintenance PCA, Parts Location Diagram

Table 2-23. System Clock/Console Interface PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30031-60001 0160-2055 0160-2055 0160-0161 0160-2266	1 31 1 1	SYSTEM CLOCK/CONSOLE INTERFACE PCA C:FXD CER D.D1 UF +80-20% 100VDCW C:FXO CER O.D1 UF +8D-2D% 100VDCW C:FXD WY 0.01 UF 10% 200VDCW C:FXD CER 24 PF 5% 5D0VOCW	28480 56289 56289 56289 72982	30D31-60DD1 C023F101F103ZS22-C0H C023F101F103ZS22-CDH 192P10392-PTS 301-000-C0GD-240J
C5 C6 C7 C6 C9	0121-0060 0180-0197 0163-2055 0163-2055 0160-2208	10 3	C:YAR CER 2-8 PF NPD C:FXD ELECT 2-2 UF 10% 20VDCW C:FXD CER 0-01 UF +80-20% 100VOCW C:FXD CER 0-D1 UF +80-20% 100VOCW C:FXD M1CA 330 PF 5% 3DDVOCW	72 982 56 289 56 289 56 289 56 289 28 480	538-011 A 2-8 1500225x9020A2-0YS C023F101F103ZS22-C0H C023F101F103ZS22-C0H 0160-2208
C10 C11 C12 C13 C14	0160-2208 0160-2208 0160-2208 0160-2055 0150-0121	7	C:FXD M1CA 33D PF 5% 30DVOCH C:FXD M1CA 33D PF 5% 3DOVDCH C:FXD M1CA 330 PF 5% 30OVDCH C:FXD CER 0-01 UF +80-20% 1DOVDCH C:FXD CER 0-1 UF +8D-20% 5OVDCH	28480 28480 28480 56289 56289	0160-2208 0160-2208 0160-2208 0160-2208 C023F101F103ZS22-CDH 5C508LS-CML
C15 C16 C17 C18 C19	0160-2055 0180-0197 0160-2940 0160-2940 0160-2940	4	C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXD MICA 470 PF 5% 300VCCW C:FXD MICA 470 PF 5% 300VCCW C:FXD MICA 470 PF 5% 300VCCW	56289 56289 72136 72136 72136	C023F101F103ZS22-CDH 1500225X9020A2-DYS R0M15F471J3C RDM15F471J3C R0M15F471J3C
C2D C21 C22 C23 C24	0160-2940 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO MICA 470 PF 5% 300VOCM C:FXO CER 0.01 UF +80-20% 100VOCM C:FXD CER 0.01 UF +80-20% 100VOCM C:FXD CER 0.01 UF +80-20% 100VOCM C:FXD CER 0.01 UF +80-20% 100VOCM	72136 56289 56289 56289 56289	ROM15F471J3C CD23F101F103ZS22-COH CO23F101F103ZS22-CDH CO23F101F103ZS22-CDH CO23F101F103ZS22-CDH
C25 C26 C27 C28 C29	0160-2055 0160-2055 0160-2055 0160-2055 0150-0121		C=FXD CER 0.01 UF +80-20% 10DVDCW C=FXD CER 0.01 UF +80-20% 100VDCW C=FXD CER 0.01 UF +80-20% 10DVDCW C=FXD CER 0.01 UF +80-20% 10DVDCW C=FXD CER 0.01 UF +80-20% 50VDCW	562 89 562 89 562 89 562 89 562 89	CO23F1D1F103ZS22-COH CO23F1D1F103ZS22-COH CO23F101F103ZS22-CDH CO23F101F103ZS22-CDH 5C508IS-CML
C30 C31 C32 C33 C34	0160-2055 0150-0121 0160-2055 0160-2055 0160-2202	2	C:FXD CER 0.01 UF +8D-20% 100VOCW C:FXD CER 0.1 UF +80-20% 5DVDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +8D-20% 100VDCW C:FXD CER 0.01 UF +8D-20% 100VDCW	56289 56289 56289 56289 56289 28480	C023F101F103ZS22-CDH 5C5D81S-CHL CD23F101F103ZS22-CDH C023F101F103ZS22-COH C0160-2202
C35 C36 C37 C38 C39	0160-2307 0160-2055 0160-2202 0150-0121 0160-2055	1	C:FXO MICA 47 PF 5% C:FXD CER 0.01 UF +8D-20% 100VDCW C:FXD MICA 75 PF 5% C:FXD CER 0.01 UF +8D-20% 50VOCW C:FXD CER 0.01 UF +8D-20% 100VOCW	28480 56289 28480 56289 56289	0160-2307 C023F1D1F103ZS22-C0H 016D-2202 5C5D81S-CML C023F101F103ZS22-CDH
C4D C41 C42 C43 C44	0160-2055 0160-2055 0150-0121 0160-2055 0160-2055		C:FXD CER D-D1 UF +80-2D% 1DOVDCW C:FXD CER 0-D1 UF +80-20% 1DOVDCW C:FXD CER D-1 UF +80-20% 50V0CW C:FXD CER D-01 UF +80-2D% 1DOVDCW C:FXD CER 0-01 UF +80-2D% 1DOVDCW	56 289 56 289 56 289 56 289 56 289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C5D8IS-CML C023F1D1F103ZS22-COH C023F1D1F103ZS22-CDH
C45 C46 C47 C48 C49	016D-2055 0160-2055 0160-2055 0160-2055 0150-0121		C:FXD CER 0.D1 UF +8D-2D% 1DDVDCW C:FXD CER 0.D1 UF +8D-2D% 1DDVDCW C:FXD CER 0.D1 UF +8D-2D% 1DDVDCW C:FXD CER 0.D1 UF +8D-2D% 1DOVDCW C:FXD CER D.1 UF +8D-2D% 50VCCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F1D1F103ZS22-CDH CD23F1D1F103ZS22-CDH C023F101F103ZS22-CDH 5C508IS-CML
C50 C51 C52 C53 C54	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER D.1 UF +8D-20% 50VDCW C:FXD CER 0.01 UF +8D-20% 100VDCW C:FXD CER 0.01 UF +8D-20% 1DDVDCW C:FXD CER 0.01 UF +8D-20% 1DDVDCW C:FXD CER D.01 UF +8D-20% 1DDVDCW	56 289 56 289 56 289 56 289 56 289	5C5081S-CML C023F101F103ZS22-CDH C023F101F103ZS22-C0H C023F101F103ZS22-CDH CD23F1D1F103ZS22-C0H
C55 CR1 CR2 CR3 CR4	0180-0197 1901-0158 1902-3084 1902-3084 1901-0158	2 2	C:FXD ELECT 2.2 UF 10% 2DVDCW OIDDE:S1LICDN 0.75A 200 PIV OIDDE 8REAKODWN:4.75V 1D% 40DMW OIDDE 8REAKDDWN:4.75V 10% 40DMW OIDDE:S1LICDN D.75A 200 PIV	56289 28480 28480 28480 28480	150D225X9020A2-0YS 1901-0158 1902-3084 1902-3084 1901-0158
L1 01 R2 K3 R4	91D0-2276 1850-0158 0698-4037 0698-3444 0757-D28D	1 1 1 1 14	CD1L/CHOKE 1DD UH 10% TSTR:GE PNP R:FXD MET FLM 46.4 OHM 1% 1/8W R:FXD MET FLM 316 OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W	28480 8D131 2848D 26480 28480	9100-2276 2N2635 0698-4037 D698-3444 D757-0280
R5 R6 R7 R8 R9	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W	28480 23480 28480 28480 28480	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280
R10 R11 R12 R13 R14	0698-3155 0757-0407 1810-0030 1810-0030 1810-0030	13 1 6	R:FXD MET FLM 4.64K DHM 1% 1/8W R:FXD MET FLM 200 OHM 1% 1/8W NETWDRK:7 RESISTORS 1K DHM 5% 0.15W EA NETWDRK:7 RESISTORS 1K DHM 5% 0.15W EA NETWDRK:7 RESISTORS 1K DHM 5% 0.15W EA	28480 28480 28480 28480 28480	0698-3155 0757-04D7 181D-0030 1810-0030

Table 2-23. System Clock/Console Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R15 R16 R17 R18 R20	0757-0416 0757-0280 0757-0280 0757-0280 0757-0280	1	R:FXD MET FLM 511 DHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0416 0757-0280 0757-0280 0757-0280 0757-0280
R21 R22 R23 R24 R25	0757-0280 0757-0280 0698-3155 0698-3155 0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 4.64K CHM 1% 1/8W R:FXD MET FLM 4.64K CHM 1% 1/8W R:FXD MET FLM 4.64K CHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0280 0698-3155 0698-3155 0757-0280
R26 R27 R28 R29 R30	0757-0442 0698-3155 1810-0030 0757-0279 0757-0279	1 2	R:FXO MET FLM 10.0K DHM 1% 1/8W R:FXO MET FLM 4.64K DHM 1% 1/8W NETWORK:7 RESISTORS IK DHM 5% 0.15W EA R:FXO MET FLM 3.16K DHM 1% 1/8W R:FXO MET FLM 3.16K DHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0442 0698-3155 1810-0030 0757-0279 0757-0279
R31 R32 R33 R34 R35	0698-3155 0698-3155 0698-3155 0698-3155 0757-0280		R:FXD MET FLM 4.64K DHM 1% 1/8W R:FXO MET FLM 4.64K DHM 1% 1/8W R:FXD MET FLM 4.64K DHM 1% 1/8W R:FXD MET FLM 4.64K DHM 1% 1/8W R:FXO MET FLM 1.64K DHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3155 0698-3155 0698-3155 0698-3155 0757-0280
R36 R37 R38 R39 R40	0698-3155 0698-3155 0698-3155 1810-0030 1810-0030		R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA	28480 28480 28480 26480 28480	0698-3155 0698-3155 0698-3155 1810-0030 1810-0030
R41 R42 R43 S1 U13	0698-3155 0698-3155 1810-0125 3100-3075 1820-0751	1 1 8	R:FXO MET FLM 4.64K DHM 1% 1/8W R:FXO MET FLM 4.64K DHM 1% 1/8W RESIST1YE NETWORK:7 X 4.7K DHM 5% 0.15W SWITCH IC:TTL PRESETTABLE DECADE CDUNTER(50MHZ	28480 28480 28480 28480 01295	0698-3155 0698-3155 1810-0125 3100-3075 SN74196N
U14 U15 U18 U23 U24	1820-0751 1820-0509 1820-0755 1820-0751 1820-0751	1 6	1C:TTL PRESETTABLE DECADE COUNTERISOMHZ IC:OTL QUAD 1-2-2-2-INPT NAND LINE DR IC IC:TTL PRESETTABLE DECADE COUNTERISOMHZ IC:TTL PRESETTABLE DECADE COUNTERISOMHZ	01295 04713 28480 01295 01295	SN74196N MC1488L 1820-0755 SN74196N SN74196N
U25 U28 U32 U33 U34	1820-0990 1820-0755 1820-0142 1820-0751 1820-0751	1	IC IC IC INTEGRATEO CIRCUIT:4INPUT,2-OR/NOR IC:TTL PRESETTABLE DECADE COUNTERI5OMHZ IC:TTL PRESETTABLE DECADE COUNTERI5OMHZ	28480 28480 04713 01295 01295	1820-0990 1820-0755 MC1004P SN74196N SN74196N
U35 U36 U37 U43 U44	1820-0233 1820-0719 1820-0742 1820-0751 1820-0751	4 4 2	IC:TTL SYMUP-ON 4-8IT 8INARY COUNTER IC:TTL QUAD EXCLUSIVE NOR GATE IC:TTL QUAL 4-8IT LATCH IC:TTL PRESETTABLE DECADE COUNTER(50MHZ IC:TTL PRESETTABLE DECADE COUNTERISOMHZ	01 295 18 3 2 4 07 2 6 3 01 2 9 5 01 2 9 5	SN74193N N8242A U6N930859X SN74196N SN74196N
U45 U46 U53 U54 U58	1820-0233 1820-0719 1820-0622 1820-0668 1820-0755	1 2	IC:TTL SYNUP-ON 4-8IT BINARY COUNTER IC:TTL QUAD EXCLUSIVE NOR GATE IC:TTL 8-INPT MULTIPLEXER W/ENABLE IC:TTL HEX ORIVER W/DPEN COLL(30V) IC	01295 18324 01295 01295 28480	SN74193N N8242A SN74151N SN7407N 1820-0755
U62 U64 U68 U73 U74	1820-0668 1820-0629 1820-0755 1820-0755 1820-0755	3	IC:TTL HEX ORIVER W/OPEN COLLISOV) IC:TTL SHS OUAL EDGE TR1G. J-K F/F IC IC IC	01295 01295 28480 28480 28480	SN7407N SN745112N 1820-0755 1820-0755 1820-0755
U75 U76 U77 U82 U84	1820-0233 1820-0719 1820-0742 1820-0141 1820-0301	6 2	1C:TTL SYMUP-ON 4-BIT BINARY COUNTER IC:TTL QUAD EXCLUSIVE NOR GATE IC:TTL QUAL 4-BIT LATCH IC:TTL QUAD 2-INPT AND GATE IC:TTL QUAD BI-STABLE O-LATCH	01295 18324 07263 04713 01295	SN74193N N8242A U6N930859X MC3001P SN7475N
U85 U86 U91 U92 U93	18 20-0233 18 20-0719 18 20-0370 18 20-0141 18 20-0512	5 4	IC:TTL SYMUP-ON 4-BIT 8INARY COUNTER IC:TTL QUAD EXCLUSIVE NOR GATE IC:TTL HS QUAD 2-INPT NANO GATE IC:TTL OUAD 2-INPT ANO GATE IC:TTL HS DUAL D F/FI35 MHZ MIN.)	01295 18324 01295 04713 01295	SN74193N N8242A SN74H00N MC3001P SN74H74N
U94 U95 U96 U97 U99	1820-0512 1820-0077 1820-0374 1820-0370 1820-0686	2 1	IC:TTL HS QUAL O F/FL35 MHZ MIN.) IC:TTL QUAL O F/F IC:TTL HS QUAL 4-INPT AND GATE IC:TTL HS QUAD 2-INPT NANO GATE IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE	01295 01295 01295 01295 01295	SN74H74N SN7474N SN74H21N SN74H00N SN74S11N
U101 U102 U103 U104 U105	1820-0372 1820-0424 1820-0424 1820-0625 1820-0844	3 5	IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HS HEX INVERTER IC:TTL HS HEX INVERTER IC:TTL SHS DUAL EDGE TRIG. J-K F/F IC:TTL DUAL 3-INPT PULSE SHAPER	28480 04713 04713 01295 04713	1820-0372 SN74H04N SN74H04N SN74S112N MC426P

Table 2-23. System Clock/Console Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U106 U107 U109 U112 U113	1820+0301 1820-0491 1820-0760 1820-0515 1820-0370	1 4 1	IC:TTL OUAO 81-STABLE O-LATCH IC:TTL BCD/DEC. DECODER/CRIVER IC:TTL B-BIT RECEIVER INVERTING IC:TTL DUAL RE-TRIG/RE-SET HOND-MULTI IC:TTL HS QUAD 2-INPT NANO GATE	01295 01295 28480 07263 01295	SN7475N SN74145N 1820-0760 UT8960259X SN74H00N
U114 U115 U116 U117 U122	1820-0834 1820-0471 1820-0424 1820-0141 1820-00TT	1	IC:TTL 1 OF 8 DECODER W/INVERT CONTROL IC:TTL HEX INVERTER W/DPEN COLL.(30V) IC:TTL HS HEX INVERTER IC:TTL QUAD 2-INPT AND GATE IC:TTL DUAL D F/F	04T13 01295 04713 04713 01295	MC4038P SN7406N SN74H04N MC3001P SNT474N
U123 U124 U125 U126 U127	1820-0372 1820-0141 1820-0205 1820-0370 1820-0760	3	IC:TTL TRIPLE 3-INPT AND GATE IC:TTL OUAD 2-INPT AND GATE IC:TTL OUAD 2-INPT DR GATE IC:TTL HS OUAD 2-INPT NAND GATE IC:TTL 8-BIT RECEIVER INVERTING	2848D 04713 28480 01295 28480	1820-0372 MC3001P 1820-0205 SN74H00N 1820-0760
U131 U132 U133 U134 U135	182D-0370 1820-0141 1820-0372 1820-0205 1820-0205		IC:TTL HS QUAD 2-INPT NANG GATE IC:TTL QUAG 2-INPT AND GATE IC:TTL TRIPLE 3-INPT AND GATE IC:TTL QUAD 2-INPT OR GATE IC:TTL QUAD 2-INPT DR GATE	01295 04713 28480 28480 28480	SN 74H00N MC 3001P 1820-0372 1820-0205 1820-0205
U136 U137 U135 U141 U142	1820-0706 1820-0760 1820-0756 1820-0371 1820-0239	2 3 1 1	1C:DIGITAL TTL 5-81T CDMPARATDR 1C:TTL 8-81T RECEIVER INVERTING 1C:TTL 8-81T DRIVER INVERTING 1C:TTL HS TRIPLE 3-INPT NAND GATE 1C:TTL QUAD 2-INPT NOR GATE	04713 28480 28480 01295 28480	U78932459X 1820-0760 1820-0756 SN74H10N 1820-0239
U143 U144 U145 U146 U147	1820-0629 1820-0141 1820-0765 1820-0706 1820-0760	3	IC:TTL SHS OUAL EDGE TRIG. J-K F/F IC:TTL QUAD 2-INPT AND GATE IC:TTL 4-BIT BINARY COUNTER IC:DIGITAL TIL 5-BIT CDMPARATDR IC:TTL 8-BIT RECEIVER INVERTING	01295 04713 01295 04713 28480	SN745112N MC3001P SN74197N U78932455X 1820-0760
U149 U151 U152 U153 U154	1820-0T56 1820-0231 1820-0424 1820-0574 1820-0574	3 2	IC:TTL 8-81T DRIVER INVERTING IC:TTL 4-81T SYNC SINARY COUNTER IC:TTL HS HEX INVERTER IC:OIGITAL TTL OUAD 0-F/F IC:OIGITAL TTL QUAD 0-F/F	28480 07263 04713 12040 12040	1820-0756 U68931659X SNT4H04N DM8551N
U155 U156 U157 U159 U161	1820-0512 1820-0424 1820-0262 1820-0756 1820-0231	1	IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL HS HEX INVERTER IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL 8-BIT DRIVER INVERTING IC:TTL 4-BIT SYNC BINARY COUNTER	01295 04T13 12040 28480 07263	SN74H74N SN74H04N SD9936 1820-0756 U&8931659X
U162 U163 U164 U165 U166	1820-0231 1820-0294 1820-0512 1820-0765 1820-0765	1	1C:TTL 4-BIT SYNC BINARY COUNTER IC:TTL 8-BIT SER-IN PAR DUT SHIFT REG IC:TTL HS DUAL O F/F(35 MHZ MIN_) IC:TTL 4-BIT BINARY COUNTER IC:TTL 4-BIT BINARY COUNTER	07263 12040 01295 01295 01295	U68931659X SD9935 SN74HT4N SN74197N SN74197N
U167 WI W6 Y1	1820-0626 8159-0005 0410-0405	1 1 1	IC:TTL 4-8IT LATCH THRU JUMPER WIRE CRYSTAL:OUARTZ 10 MHZ	0T263 28480 28480	U78931459X 8159-0005 0410-0405

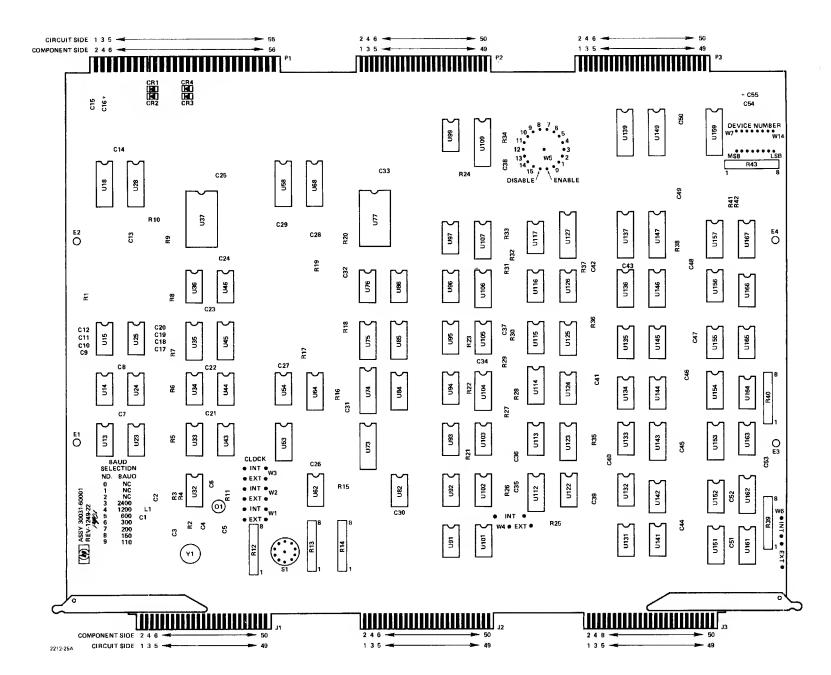


Figure 2-22. System Clock/Console Interface PCA, Parts Location Diagram

Table 2-24. Multiplexer Channel PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30035-60001 0150-0121 0150-0121 0150-0121 0150-0121	1	MULTIPLEXER CHANNEL PCA C:FXD CER 0-1 UF +80-20% 50VDCW	28480 56289 56289 56289 56289	30035-60001 5C508IS-CML 5C508IS-CML 5C508IS-CML 5C508IS-CML
C5 C6 C7 C8 C9	0180-0197 0180-0197 0180-0197 0160-2055 0160-2204	5 1 3	C:FXD ELECT 2.2 UF 10% 20VDCW C:FXD ELECT 2.2 UF 10% 20VDCW C:FXD ELECT 2.2 UF 10% 20VDCW C:FXD ELECT 0.0 UF +80-20% 100VDCW C:FXD MICA 100PF 5%	56289 56289 56289 56289 72136	15/0225X9020A2-DYS 15/00225X9020A2-OYS 15/00225X9020A2-DYS C023F101F103ZS22-CDH RDM15F101J3C
C10 C11 C12 C13 C14	0180-0197 0160-2204 0160-2204 0150-0121 0150-0121		C:FXO ELECT 2.2 UF 10% 20VDCW C:FXD MICA 100PF 5% C:FXD MICA 100PF 5% C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.1 UF +80-20% 50VDCW	56289 72136 72136 56289 56289	150D225X9020A2-0YS RDM15F101J3C RDM15F101J3C 5C5081S-CML 5C50B1S-CML
C15 C16 C17 C18 C19	0150-0121 0150-0121 0150-0121 0180-0197 0150-0121		C:FXD CER 0.1 UF +80-20% 50VOCW C:FXO CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXD CER 0.1 UF +80-20% 50VDCW	56 289 56 289 56 289 56 289 56 289	5C50BIS-CML 5C50BIS-CML 5C50BIS-CML 150D225X9020A2-0YS 5C50BIS-CML
C20 C21 C22 C23 C24	0150-0121 0150-0121 0150-0121 0150-0121 0150-0121		C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-1 UF +80-20% 50VDCW	56289 56289 56289 56289 56289	5C508IS-CML 5C508IS-CML 5C508IS-CML 5C508IS-CML 5C508IS-CML
C25 C26 C27 C28 CR1	0150-0121 0150-0121 0150-0121 0150-0121 1901-0159	2	C:FXO CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.1 UF +80-20% 50VDCW DIDDE:SILICDN 0.75A 400PIV	56289 56289 56289 56289 04713	5C508IS-CML 5C508IS-CML 5C508IS-CML 5C508IS-CML 5C508IS-CML 5R1358-4
CR2 R1 R2 R3 R4	1901-0159 0698-3155 0698-3445 1810-0030 1810-0030	6 1 12	DIDDE:SILICON 0.75A 400PIV R:FXD MET FLM 4.64K DHM 1% 1/8W R:FXD MET FLM 348 DHM 1% 1/8W NETWDRX:7 RESISTDRS 1K DHM 5% 0.15W EA NETWDRX:7 RESISTDRS 1K DHM 5% 0.15W EA	04713 28480 28480 28480 28480	SR1358-4 0698-3155 0698-3445 1810-0030
R5 R6 R7 R8 K9	0698-5852 0757-0280 0698-5852 0757-0280 0698-3443	2 5	R:FXO MET FLM 500 DHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 500 DHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 287 DHM 1% 1/8W	28 4 80 28 4 80 28 4 80 28 4 80 28 4 80	0698-5852 0757-0260 0698-5852 0757-0280 0698-3443
R10 R11 R12 R13 R14	0757-0420 0757-0442 0757-0442 0757-0442 0698-3155	1 3	R:FXD MET FLM 750 DHM 1% 1/8W R:FXD MET FLM 10.0K OHM 1% 1/8W R:FXD MET FLM 10.0K DHM 1% 1/8W R:FXD MET FLM 10.0K DHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0420 0757-0442 0757-0442 0757-0442 0698-3155
R15 R16 R17 R18 R19	1810-0030 1810-0030 0698-3155 0757-0280 0757-0280		NETWORK: 7 RESISTORS 1K DHM 5% 0.15W EA NETWORK: 7 RESISTORS 1K DHM 5% 0.15W EA R:FXO MET FLM 4.64K DHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	1810-0030 1810-0030 0698-3155 0757-0280 0757-0280
R20 R21 R22 R23 R24	1810-0030 1810-0030 1810-0030 1810-0030 0698-3155		NETWDRK:7 RESISTDRS 1K DHM 5% 0.15W EA NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA NETWORK:7 RESISTDRS 1K DHM 5% 0.15W EA NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA R:FXO MET FLM 4.64K OHM 1% 1/8W	28480 28480 28480 28480 28480	1810-0030 1810-0030 1810-0030 1810-0030 0698-3155
R 25 R 26 R 27 R 28 R 30	1810-0030 1810-0030 1810-0030 1810-0030 0757-0280		NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA R:FXD MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	1810-0030 1810-0030 1810-0030 1810-0030 0757-0280
R31 R32 R33 U12 U13	0698-3155 1810-0125 0698-3155 1820-0205 1820-0377	1 4 6	R:FXD MET FLM 4.64K OHM 1% 1/8W RESISTIVE NETHDRK:7 X 4.7K DHM 5% 0.15W R:FXD MET FLM 4.64K OHM 1% 1/8W 1C:TTL QUAD 2-1NPT DR GATE 1C:TTL HS DUAL 2-WIDE 2-1NPT	28480 28480 28480 28480 01295	0698-3155 1810-0125 0698-3155 1820-0205 SN74H50N
U14 U15 U16 U17 U18	1820-0380 1820-0370 1820-0681 1820-0755 1820-0755	1 6 3 2	IC:TTL HS 4W 2-2-2-3 INPT ANO/OR INV IC:TTL HS OUAD 2-INPT NAND GATE IC:TTL OUAD 2-INPT NAND GATE IC IC	01295 01295 01295 28480 28480	SN74H53N SN74H00N SN74S00N 1820-0755 1820-0755
U21 U22 U23 U24 U25	1820-0379 1820-0424 1820-0205 1820-0377 1820-0685	3 6	IC:TTL HS 4W 2-2-2-3 1NPT AND/OR GATE 1C:TTL HS HEX INVERTER IC:TTL QUAD 2-1NPT DR GATE 1C:TTL HS DUAL 2-WIDE 2-INPT 1C:TTL SCHOTTKY TRIPLE 3-1NPT NAND GATE	01 295 047 13 28480 01295 01 295	SN 74H52N SN 74H04N 1820-0205 SN 74H50N SN 74S10N

Table 2-24. Multiplexer Channel PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U26 U27 U31 U32 U33	1820-0372 1820-0471 1820-0377 1820-0371 1820-0141	4 1 4 T	IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HEX INVERTER W/OPEN COLL.(30V) IC:TTL HS DUAL 2-WIDE 2-INPT IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL QUAD 2-INPT AND GATE	28480 01295 01295 01295 01295 04T13	1820-0372 SN7406N SN74H50N SN74H10N HC3001P
U34 U35 U37 U41 U42	1820-0379 1820-0141 1820-0686 1820-037T 1820-0141	3	IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL HS OUAL 2-WIDE Z-INPT IC:TTL QUAD 2-INPT AND GATE	01295 04713 01295 01295 04713	SNT4H52N MC3001P SNT4S11N SNT4H50N HC3001P
U43 U44 U45 U46 U4T	1820-0379 1820-0686 1820-0684 1820-0301 1820-0683	2 5 2	IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE IC:OIGITAL TTL IC:TTL OUAO BI-STABLE D-LATCH IC:TTL SCHOTTKY HEX INVERTER	01295 01295 28480 01295 01295	SNT4H52N SNT4S11N 1820-0684 SN74T5N SNT4S04N
U51 U52 U53 U54 U55	1820-03TT 1820-0693 1820-0686 1820-0685 1820-03T0	3	IC:TTL HS OUAL 2-WIDE 2-INPT IC:TTL SCHOTTKY OUAL D F/F W/PRESET IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL SCHOTTKY TRIPLE 3-INPT NANO GATE IC:TTL HS OUAD 2-INPT NAND GATE	01295 01295 01295 01295 01295	SN74H50N SNT4ST4N SNT4S11N SN74S10N SN74H00N
U56 U5T U61 U62 U63	1820-0844 1820-0684 1820-0376 1820-0141 1820-03T0	1 2	IC:TTL DUAL 3-INPT PULSE SHAPER IC:DIGITAL TTL IC:TTL HS DUAL 4-INPT NANC BUFFER IC:TTL QUAO 2-INPT NANO GATE IC:TTL HS QUAO 2-INPT NANO GATE	04713 28480 01295 04713 01295	HC426P 1820-0684 SN74H40N MC3001P SNT4H00N
U64 U65 U66 U67 U71	1820-0693 1820-0141 1820-03T1 1820-0214 1820-0370	2	IC:TIL SCHOTTKY OUAL D F/F M/PRESET IC:TIL OUAD 2-INPT AND GATE IC:TIL HS TRIPLE 3-INPT NAND GATE IC:TIL 8CO TO 00C. 00CO00ER IC:TIL HS OUAO 2-INPT NANO GATE	01295 04T13 01295 01295 01295	SN 74S 74N MC 3UO1P SN 74H1 ON SN 7442N SN 74H0ON
UT2 UT3 U74 U75 U77	1820-0370 1820-0377 1820-0140 1820-0681 1820-0424	1	IC:TTL HS OUAO 2-INPT NANO GATE IC:TTL HS OUAL 2-WIOE 2-INPT IC:TTL OUAL 4-INPT AND BUFFER IC:TTL OUAO 2-INPT NANO GATE IC:TTL HS HEX INVERTER	01295 01295 04713 01295 04T13	SN 74H00N SN 74H50N HC 3026P SN 74500N SN 74H04N
U78 U81 U82 U83 U84	1820-0760 1820-0214 1820-0424 1820-0424 1820-0424	2	IC:TTL 8-8IT RECEIVER INVERTING IC:TTL BCO TO OEC. DECODER IC:TTL HS HEX INVERTER IC:TTL HS HEX INVERTER IC:TTL HS HEX INVERTER	28480 01295 04T13 04713 04713	1820-0760 SN7442N SN744104N SN744104N SN744104N
U85 U91 U92 U93 U94	1820-0681 1820-0372 1820-0371 1820-0205 1820-0205		IC:TTL OUAO 2-INPT NANO GATE LC:TTL TRIPLE 3-INPT AND GATE LC:TTL HS TRIPLE 3-INPT NANO GATE LC:TTL OUAO 2-INPT OR GATE LC:TTL OUAO 2-INPT OR GATE	01295 28480 01295 28480 28480	SNT4SOON 1820-0372 SNT4H1 ON 1820-0205 1820-0205
U95 U101 U102 U103 U104	1820-0239 1620-0683 1820-03T2 1620-03T6 1820-0657	2	IC:TTL OUAU 2-INPT NOR GATE IC:TTL SCHOTTKY HEX INVERTER IC:TTL TRIPLE 3-INPT ANO GATE IC:TTL HS OUAL 4-INPT NAND BUFFER IC:DIGITAL TTL 8-INPT PRIORITY ENCOGER	28480 01295 28480 01295 0T263	1820-0239 SNT4S04N 1820-0372 SNT4H40N UT8931859X
U105 U106 U10T U108 U111	1820-0301 1820-0301 1820-0491 1820-0655 1820-0141	2 2	IC:TTL OUAD 8I-STABLE D-LATCH IC:TTL OUAD 8I-STABLE O-LATCH IC:TTL 8C0/OEC. OECODER/DRIVER IC:TTL OUAL INPUT NOR GATE WITH STROBE IC:TTL OUAD 2-INPT AND GATE	01295 01295 01295 01295 04713	SNT4T5N SNT4T5N SNT4145N SN23684 HC3001P
U112 U113 U114 U115 U11e	1820-0370 1820-0372 1820-065T 1820-0301 1820-0301		IC:TTL HS QUAD 2-INPT NANO GATE IC:TTL TRIPLE 3-INPT AND GATE IC:OIGITAL TTL 8-INPT PRICRITY ENCOOER IC:TTL QUAO 81-STABLE O-LATCH IC:TTL QUAO 81-STABLE O-LATCH	01 295 28480 07263 01 295 01 295	SN74H00N 1820-0372 UTB931859X SN7415N SN7475N
U117 U118 U121 U122 U123	1820-0491 1820-0655 1820-0682 1620-0682 1820-0682	10	IC:TTL 8CO/OEC. OECDOER/ORIVER IC:TTL DUAL INPUT NOR GATE WITH STROBE IC:TTL SHS OUAD 2-INPT NAND GATE IC:TTL SHS OUAD 2-INPT NAND GATE IC:TTL SHS QUAD 2-INPT NAND GATE	01295 01295 01295 01295 01295	SN 74145N SN 23684 SN 74530N SN 74530N SN 74530N
U124 U125 U126 U131 U132	1820-0682 1820-0759 1820-0759 1820-0626 1820-0233	4 2 3	IC:TTL SHS OUAD 2-INPT NAND GATE IC:TTL LOW-POWER 8-BIT RECEIVER IC:TTL LDW-POWER 8-BIT RECEIVER IC:TTL 4-BIT LATCH IC:TTL SYNUP-ON 4-BIT BINARY CUUNTER	01295 28480 28480 07263 01295	SNT4S30N 1820-0759 1820-0759 U78931459X SN74193N
U135 U136 U137 U138 UI4I	1820-0756 1820-0756 1820-0756 1820-0756 1820-0756	10	IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT ORIVER INVERTING IC:TTL 4-8IT LATCH	28480 28480 28480 28480 0T263	1820-0756 1820-0756 1820-0756 1820-0756 UT 8931459X

Table 2-24. Multiplexer Channel PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
U142 U143 U144 U145 U146	1820-0836 1820-0233 1820-0233 1820-0842 1820-0842	1	IC:TTL DUAL 4-BIT PARITY TREE IC:TTL SYNUP-ON 4-BIT BINARY COUNTER IC:TTL SYNUP-DN 4-BIT BINARY COUNTER IC:TTL 8-BIT PARITY TREE IC:TTL 8-BIT PARITY TREE	04713 01295 01295 04713 04713	MC4010P SN74193N SN74193N MC4008P MC4008P
0147 0148 0151 0152 0155	1820-0756 1820-0756 1820-0682 1820-0788 1820-0759	1	IC:TTL 8-8IT DRIVER INVERTING IC:TTL 8-BIT DRIVER INVERTING IC:TTL SHS QUAD 2-INPT NAND GATE IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL LDW-POWER 8-BIT RECEIVER	28480 28480 01295 01295 28480	1820-0756 1820-0756 SN74530N SN35431 1820-0759
U156 U161 U162 U163 U164	1820-0759 1820-0682 1820-0682 1820-0682 1820-0682		IC:TTL LOW-POWER 8-BIT RECEIVER IC:TTL SHS QUAD 2-INPT NAND GATE	28480 01295 01295 01295 01295	1820-0755 SN74S30N SN74S30N SN74S30N SN74S30N
U175 U176 U177 U178 U181	1820-0756 1820-0756 1820-0756 1820-0756 1820-0545	4	IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT DRIVER INVERTING IC:TTL 8-8IT DRIVER INVERTING IC:TTL 8-8IT UP-DDWN CDUNTER	28480 28480 28480 28480 01295	1820-0756 1820-0756 1820-0756 1820-0756 1820-0756 SN74191N
U182 U183 U184 U187 U188	1820-0545 1820-0545 1820-0545 1820-0706 1820-0760	2	IC:TTL SYNC 4-BIT UP-DDWN COUNTER IC:TTL SYNC 4-BIT UP-DDWN COUNTER IC:TTL SYNC 4-BIT UP-DDWN CDUNTER IC:DIGITAL TTL 5-BIT CDMPARATDR IC:TTL 8-BIT RECEIVER INVERTING	01295 01295 01295 01295 04713 28480	SN74191N SN74191N SN74191N U78932455X 1820-0760
U191 U192 U193 U194 U195	1820-0742 1820-0424 1820-0371 1820-0682 1820-0842	1	IC:TTL DUAL 4-BIT LATCH IC:TTL HS HEX INVERTER IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL SHS OUAD 2-INPT NAND GATE IC:TTL 8-BIT PARITY TREE	07263 04713 01295 01295 04713	U6N930859X SN74H04N SN74H10N SN74S30N MC4008P
U196 U197 U204 U205	1820-0842 1820-0706 1820-0693 1820-0141		IC:TTL 8-81T PARITY TREE IC:DIGITAL TTL 5-81T COMPARATOR IC:TTL SCHOTTKY DUAL D F/F W/PRESET IC:TTL QUAO 2-INPT AND GATE	04713 04713 01295 04713	MC4008P U78932459X SN74S74N MC3001P
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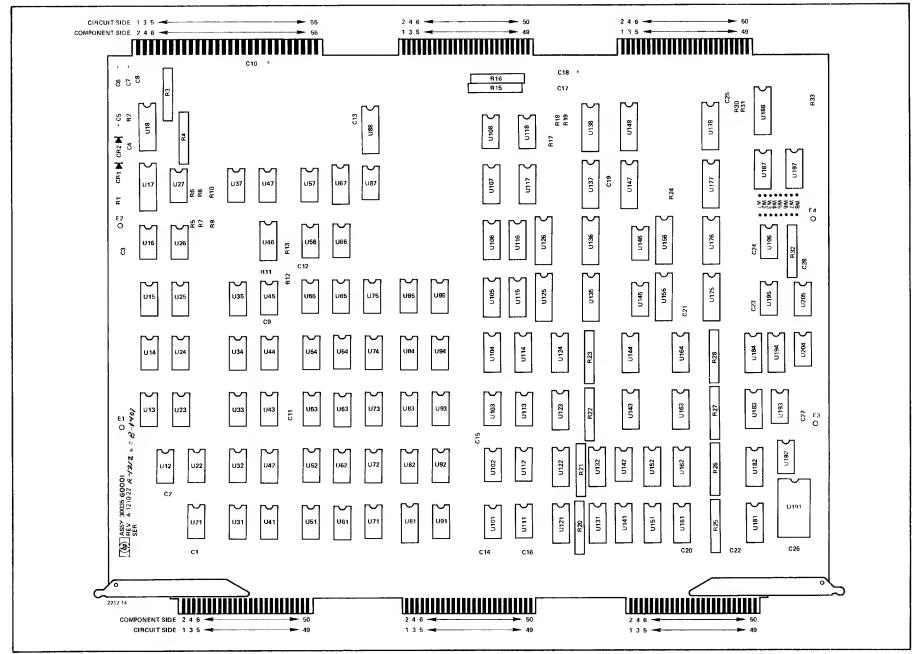


Figure 2-23. Multiplexer Channel PCA, Parts Location Diagram

Table 2-25. Multiplexer Channel Bus Terminator PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
	30035-60003	1	MULTIPLEXER CHANNEL BUS TERMINATOR PCA	2848C	30035-60003
C1 C2	0150-0121 0180-0197	6 5	C:FXO CER 0.1 UF +80-20% 50YDCW C:FXO ELECT 2.2 UF 10% 20YOCW	56289 56289	5C508IS-CML 150D225X9020A2-DYS
C3 C4 C5 C6 C7	0150-0121 0180-0197 0180-0197 0150-0121 0150-0121		C:FXO CER 0.1 UF +80-20% 50VOCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXO CER 0.1 UF +80-20% 50VDCW C:FXO CER 0.1 UF +80-20% 50VOCW	56289 56289 56289 56289 56289	5C508IS-CML 150D225X5020A2-DYS 15C0225X5020A2-DYS 5C508IS-CML 5C508IS-CML
C8 C8 C10 CR1 CR2	0150-0121 0180-0197 0180-0197 1901-0159 1901-0159	2	C:FXD CER 0-1 UF +80-20% 50VOCW C:FXD ELECT 2-2 UF 10% 20VOCW C:FXO ELECT 2-2 UF 10% 20VDCW DIODE:SILICON 0-75A 400PIV 0100E:SILICON 0-75A 400PIV	56289 56289 56289 04713 04713	5C508IS-CML 1500225X9020A2-DYS 1500225X9020A2-DYS SRI358-4 SRI358-4
R1 R2 R3 R4	0698-3443 0157-0420 0698-3443 0757-0420	4	R:FXD MET FLM 287 OHM 1% 1/8W R:FXO MET FLM 750 OHM 1% 1/8W R:FXD MET FLM 287 OHM 1% 1/8W R:FXO MET FLM 750 OHM 1% 1/8W	28480 28480 28480 28480	0698-3443 0757-0420 0698-3443 0757 - 0420
R5 R6 R7 R8 R9	0698-3443 0757-0420 0698-3443 0757-0420 0757-0416	1	R:FXD MET FLM 287 OHM 1% 1/8W R:FXD MET FLM 750 DHM 1% 1/8W R:FXO MET FLM 287 DHM 1% 1/8W R:FXD MET FLM 750 OHM 1% 1/8W R:FXO MET FLM 511 DHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3443 0757-6426 0698-3443 0757-0426 0757-6416
R10 R11 R12 R13	0757-0280 1810-0030 1810-0030 0683-1015	1 2 1	R:FXO MET FLM 1K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA R:FXD COMP 100 DHM 5% 1/4W	28480 28480 28480 01121	0757-0280 1810-0030 1810-0030 C8 1015
	1.				
	•				

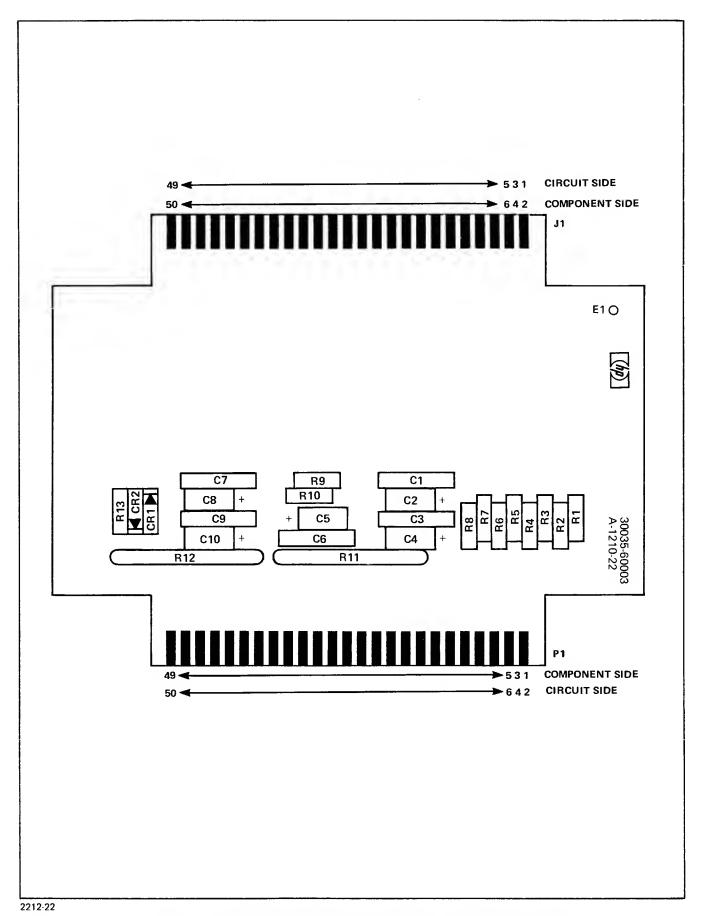


Figure 2-24. Multiplexer Channel Bus Terminator PCA, Parts Location Diagram

Table 2-26. Universal Interface (TTL) PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C5	3005D-60001 0160-2204 0160-2204 0160-2055 0180-0374	1 14 48 2	UNIVERSAL INTERFACE(TTL) PCA C=FXD MICA 100PF 5% C=FXO MICA 100PF 5% C=FXO DER 0-D1 UF +80-20% 100VOCW C=FXO TANT. 10 UF 10% 20VOCW	28480 72136 72136 56289 56289	30050-60001 R0H15F101J3C R0H15F101J3C C023F101F103ZS22-C0H 1500106X902082-0YS
C6 C7 C8 C9 C10	0180-0374 0160-2307 0160-2307 0160-0938 0160-2940	2 1 2	C:FXO TANT. 10 UF 10% 20VOCW C:FXO MICA 47 PF 5% C:FXD MICA 47 PF 5% C:FXD MICA 1000 PF 5% C:FXD MICA 470 PF 5% 300VOCW	56289 28480 28480 72136 72136	1500106 X902082-0YS 0160-2307 0160-2307 ROM1 5E102J1C ROM15F471J3C
C11 C12 C13 C14 C15	0160-2055 0180-0197 0180-0197 0160-2204 0160-2055	2	C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXO MICA 100PF 5% C:FXO CER 0.01 UF +80-20% 1D0VDCW	56289 56289 56289 72136 56289	C023F1D1F1D3ZS22-CDH 150D225X9O20A2-OYS 150D225X9O20A2-OYS R0M15F1D1J3C C023F1D1F1D3JS22-COH
C16 C17 C18 C19 C20	0160-2204 0160-2204 0160-2204 0160-2204 0160-2055		C:FXO MICA 100PF 5% C:FXD MICA 100PF 5% C:FXD MICA 100PF 5% C:FXD MICA 100PF 5% C:FXD CER 0-D1 UF +80-20% 100VDCW	72136 72136 72136 72136 72136 56289	RDM15F101J3C RDM15F101J3C ROM15F101J3C ROM15F101J3C CO23F101F103ZS22-COH
C21 C22 C23 C24 C25	0160-2209 0160-2202 0160-2055 0160-2055 0160-2055	1 3	C:FXD MICA 360 PF 5% C:FXD MICA 75 PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	72136 28480 56289 56289 56289	RDM15F361J3C 0160-2202 C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C26 C27 C28 C29 C30	0160-2204 0160-2940 0160-2055 0160-2055 0160-2055		C:FXD MICA 100PF 5% C:FXD MICA 47D PF 5% 30DVOCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 1D0VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	72136 72136 56289 56289 56289	ROM15F101J3C ROM15F471J3C C023F101F103LS22-C0H C023F101F103LS22-CDH C023F101F103LS22-CDH
C31 C32 C33 C34 C35	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C36 C37 C38 C38 C39	0160-2055 0160-2055 0150-0121 0160-2055 0160-2055	9	C=FXO CER 0.01 UF +80-20% 100V0CW C=FXO CER 0.01 UF +80-20% 100V0CW C=FXO CER 0.1 UF +80-20% 50V0CW C=FXO CER 0.01 UF +80-20% 100V0CW C=FXO CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C50B1S-CML C023F101F103ZS22-COH C023F101F103ZS22-COH
C40 C41 C42 C43 C44	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C45 C46 C47 C48 C49	0160-2055 0160-2055 0150-0121 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.1 UF +80-20% 50V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-COH 5C508IS-CML C023F101F103ZS22-CDH C023F101F103ZS22-COH
C50 C51 C52 C53 C54	0150-0121 0160-2055 0160-2055 0150-0121 0160-2204		C:FXD CER D-1 UF +8D-20% 50VOCW C:FXD CER 0-D1 UF +8D-20% 100VDCW C:FXD CER 0-D1 UF +8D-20% 100VDCW C:FXD CER D-1 UF +8D-20% 50VOCW C:FXD CER D-1 UF +8D-20% 50VOCW	562 89 562 89 562 89 562 89 72136	5C50BIS-CML CD23F101F103ZS22-CDH CD23F101F103ZS22-CDH 5C5DBIS-CML ROM15F101J3C
C55 C56 C57 C58 C59	0160-2204 0160-2055 0160-2055 0160-2204 0160-2055		C:FXD MICA 100PF 5% C:FXD CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 100V0CW C:FXO MICA 100PF 5% C:FXO CER 0.01 UF +80-20% 100V0CW	72136 56289 56289 72136 56289	RDM15F101J3C C023F101F103ZS22-C0H C023F101F103ZS22-CDH k0M15F101J3C C023F101F103ZS22-C0H
C60 C61 C62 C63 C64	0160-2055 0160-2204 0160-2055 0160-2055 0160-2204		C:FXD CER 0.D1 UF +80-20% 1UDVDCW C:FXD M1CA 1D0PF 5% C:FXD CER 0.D1 UF +80-20% 10DVDCW C:FXD CER 0.D1 UF +80-20% 1DDVDCW C:FXD M1CA 100PF 5%	56289 72136 56289 56289 72136	C023F101F103ZS22-CDH R0M15F101J3C C023F101F103ZS22-CDH C023F101F103ZS22-COH KDM15F101J3C
C65 C66 C67 C68 C69	0160-2204 0160-2055 0150-0121 0150-0121 0160-2055		C:FXO M1CA 10DPF 5% C:FXD CER 0.D1 UF +8D-2D% 10DVOCW C:FXD CER 0.1 UF +80-2D% 5DVOCW C:FXD CER 0.1 UF +8U-2D% 5DVOCW C:FXD CER 0.D1 UF +8D-2D% 10DVDCW	72136 56289 56289 56289 56289	ROM15F1D1J3C CO23F1D1F1D3ZS22-CDH 5C5DB1S-CML 5C5DB1S-CML CO23F101F1D3ZS22-CDH
C70 C71 C72 C73	0160-2055 0160-2055 0150-0121 0160-2055 0160-2055		C:FXO CER 0.D1 UF +80-20% 1DDVDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VOCW C:FXD CER 0.01 UF +8D-20% 1DDVOCW C:FXD CER 0.01 UF +8D-20% 1DDVOCW	56289 56289 56289 56289	CO23F101F103ZS22-CDH CO23F101F103ZS22-CDH 5C50B1S-CML CO23F101F103ZS22-CDH

Table 2-26. Universal Interface (TTL) PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C75 C76 C77 C78 C79	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.1 UF +80-20% 50VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56 289 56 289 56 289 56 289 56 289 56 289	5C508IS-CHL C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-CDH
C80 C81 C82 C83 C84	0160-2202 0150-0121 0160-2055 0160-2055 0160-2202		C:FXO MICA 75 PF 5% C:FXD CER 0-1 UF +80-20% 50VOCH C:FXD CER 0-01 UF +80-20% 100VOCH C:FXD CER 0-01 UF +80-20% 100VOCH C:FXD MICA 75 PF 5%	28480 56289 56289 56289 28480	0160-2202 5C508IS-CHL C023F101F103ZS22-COH C023F101F103ZS22-COH 0160-2202
CR1 CR2 CR3 CR4 CR5	1990-0325 1990-0325 1901-0081 1901-0081 1901-0081	2	OIDDE:VISIBLE LIGHT EMITTER OIDDE:VISIBLE LIGHT EMITTER OIDDE:SILICON 50 VDLTS WORKING DIODE:SILICON 50 VDLTS WORKING OIDOE:SILICON 50 VDLTS WORKING	28480 28480 07263 07263 07263	1990-0325 1990-0325 FD1415 F01415 F01415
01 R1 R2 R3 R4	1854-0094 1810-0045 0698-3153 0698-3153 1810-0030	1 7 16	TSTR:SI NPN RESISTOR PACK:7 RES. 200 OHM 5% 0.15W R:FXO MET FLM 3.83% OHM 1% 1/8W R:FXD MET FLM 3.83% OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA	80131 28480 28480 28480 28480	2N3646 1810-0045 0698-3153 0698-3153 1810-0030
R5 R6 R7 R8 R9	0698-3440 0698-3160 0698-3160 0757-0442 0698-3158	2 2 2 1	R:FXO MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 31.6K OHM 1% 1/8W R:FXO MET FLM 31.6K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 23.7K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3440 0698-3160 0698-3160 0757-0442 0698-3158
R10 R11 R12 R13 R14	0757-0442 0698-3153 0698-3153 0757-0280 0698-3440	22	R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXD MET FLM 3.83K OHM 1% 1/8W R:FXD MET FLM 3.83K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W	284 80 284 80 284 80 284 80 284 80	0757-0442 0698-3153 0698-3153 0757-0280 0698-3440
R15 R17 R18 R19 R20	0757-0280 0757-0394 0757-0280 .0698-3440 0757-0346	1	R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 51.1 OHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 196 OHM 1% 1/8W R:FXD MET FLM 10 CHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0394 0757-0280 0698-3440 0757-0346
R21 R22 R23 R24 R25	0757-0401 0757-0280 0698-3153 0698-3153 0698-3153	2	R:FXD MET FLM 100 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 3-83K OHM 1% 1/8W R:FXO MET FLM 3-83K OHM 1% 1/8W R:FXO MET FLM 3-83K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0401 0757-0280 0698-3153 0698-3153 0698-3153
R26 R27 R28 R29 R30	0757-0280 0698-3153 @757-0438 0698-3153 0698-3153 1810-0045	,	R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 3-83K CHM 1% 1/8W 5.// R:FXO MET FLM 3-83K CHM 1% 1/8W R:FXO MET FLM 3-83K CHM 1% 1/8W R:FXO MET FLM 3-83K CHM 1% 1/8W RESISTOR PACK:7 RES- 200 CHM 5% 0-15W	28480 28480 28480 28480 28480	0757-0280 0698-3153 0698-3153 0698-3153 1810-0045
R31 R32 R33 R34 R35	1813-0045 1810-0030 0757-0401 0757-0260 0698-3440	2	RESISTOR PACK:7 RES. 200 OHM 5% 0.15W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXO MET FLM 100 OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 196 OHM 1% 1/8W	28480 28480 28460 28480 28480	1810-0045 1810-0030 0757-0401 0757-0280 0698-3440
R36 R37 R38 R39 R40	0698-3440 0757-0280 1810-0030 1810-0125 0757-0280	5	R:FXD MET FLM 196 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3440 0757-0280 1810-0030 1810-0125 0757-0280
R41 R42 R43 R44 R45	1810-0125 0698-3153 0698-3153 0757-0280 1810-0045		RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W RIFXO MET FLM 3.83K OHM 1% 1/8W RIFXO MET FLM 3.83K OHM 1% 1/8W RIFXO MET FLM 1K CHM 1% 1/8W RESISTOR PACK:7 RES. 200 OHM 5% 0.15W	284 80 28 4 80 28 4 80 28 4 80 28 4 80	1810-0125 0698-3153 0698-3153 0757-0280 1810-0045
R46 R47 R48 R49 R50	0698-3153 0698-3153 1810-0125 0757-0280 1810-0125		R:FXO MET FLM 3.83K OHM 1% 1/8W R:FXD MET FLM 3.83K OHM 1% 1/8M RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W R:FXD MET FLM 1K CHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W	28480 28480 28480 28480 28480	0698-3153 0698-3153 1810-0125 0757-0280 1810-0125
R51 R52 R53 R54 R55	0698-3153 0698-3153 0757-0280 1810-0045 0757-0280		R:FXO MET FLM 3.83K OHM 1% 1/8W R:FXD MET FLM 3.83K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W RESISTOR PACK:7 RES. 200 OHM 5% 0.15W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3153 0698-3153 0757-0280 1810-0045 0757-0280
R 56 R 57 R 58 R 59 R 60	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280 0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28 4 8 0 28 4 8 0 28 4 8 0 28 4 8 0 28 4 8 0	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280

Table 2-26. Universal Interface (TTL) PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R61 R62 R63 R64 R65	1810-0045 0757-0280 1810-0045 0757-0280		RESISTOR PACK:7 RES. 200 OHM 5% 0.15W RIFXO MET FLH 1K CHM 1% 1/8W RESISTOR PACK:7 RES. 200 OHM 5% 0.15W RIFXO MET FLM 1K CHM 1% 1/8W RIFXO MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	1810-0045 0757-0280 1810-0045 0757-0280 0757-0280
R66 R67 R68 R69 R70	0698-4421 0757-0279 0757-0279 1810-0125 0757-0280	1 2	R:FXO FLM 249 OHM 1% 1/8W R:FXO MET FLM 3.16K OHM 1% 1/8W R:FXO MET FLM 3.16K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4-7K OHM 5% 0.15W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-4421 0757-0279 0757-0279 1810-0125 0757-0280
U11 U12 U13 U14 U15	1820-0424 1820-0844 1820-0834 1820-0239 1820-0515	10 9 1 1 3	IC:TTL HS HEX INVERTER IC:TTL QUAL 3-INPT PULSE SHAPER IC:TTL 1 OF 8 DECCOER W/INVERT CONTROL IC:TTL DUAU 2-INPT NDR GATE IC:TTL DUAL RE-TRIG/RE-SET MOND-MULT1	04713 04713 04713 28480 07263	SN74H04N MC426P MC4038P 1820-0239 U78960259X
U16 U17 U21 U22 U23	1820-0515 1820-0515 1820-0844 1820-0844 1820-0512	14	IC:TTL DUAL RE-TRIG/RE-SET MONO-MULTI IC:TTL DUAL RE-TRIG/RE-SET MONO-MULTI IC:TTL DUAL 3-INPT PULSE SHAPER IC:TTL DUAL 3-INPT PULSE SHAPER IC:TTL BALL 0 F/F(35 MHZ MIN.)	07263 07263 04713 04713 01295	U78960259X U78960259X HC426P MC426P SN74H74N
U24 U25 U26 U27 U28	1820-0844 1820-0512 1820-0205 1820-0370 1820-0141	1 9 17	IC:TTL QUAL 3-INPT PULSE SHAPER IC:TTL HS DUAL O F/F135 MHZ MIN.) IC:TTL QUAO 2-INPT DR GATE IC:TTL HS QUAO 2-INPT NAND GATE IC:TTL QUAO 2-INPT NAND GATE	04713 01295 28480 01295 04713	MC 42 6P SN 74 H74 N 1820-02 05 SN 74 H00 N MC 30 01 P
U31 U32 U33 U34 U35	1820-0844 1820-0141 1820-0512 1820-0424 1820-0141		IC:TTL OUAL 3-INPT PULSE SHAPER IC:TTL QUAD 2-INPT AND GATE IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL HS HEX INVERTER IC:TTL OUAD 2-INPT AND GATE	04713 04713 01295 04713 04713	MC426P MC3001P SN74H74N SN74H04N MC3001P
U36 U37 U38 U43 U44	1820-0141 1820-0629 1820-0574 1820-0512 1820-0375	1 1	IC:TTL QUAD 2-INPT AND GATE IC:TTL SHS DUAL EDGE TRIG. J-K F/F IC:D1G1TAL TTL QUAD 0-F/F IC:TTL HS DUAL 0 F/F(35 MHZ MIN.) IC:TTL HS 8-INPT MAND GATE	04713 01295 12040 01295 01295	MC3001P SN745112N OH8551N SN74H74N SN74H30N
U45 U46 U47 U48 U51	1820-0371 1820-0370 1820-0424 1820-0141 1820-0370	4	IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL HS HEX INVERTER IC:TTL QUAD 2-INPT AND GATE IC:TTL HS QUAD 2-INPT NAND GATE	01295 01295 04713 04713 01295	SN74H10N SN74H00N SN74H04N MC3001P SN74H00N
U52 U53 U54 U55 U56	1820-0471 1820-0512 1820-0141 1820-0512 1820-0282	4	IC:TTL HEX INVERTER M/DPEN COLL.(30V) IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL DUAD 2-INPT AND GATE IC:TTL HS DUAL D F/F135 MHZ MIN.) IC:TTL DUAD 2-INPT EXCL. DR GATE	01295 01295 04713 01295 01295	SN7406N SN74H74N MC3001P SN74H74N SN74B66N
U57 U58 U61 U62 U63	1820-0141 1820-0512 1820-0370 1820-0471 1820-0756	7	IC:TTL DUAD 2-INPT AND GATE IC:TTL HS DUAL D F/F(35 PHZ M1n.) IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL HEX INVERTER W/DPEN COLL.(30V) IC:TTL 8-81T DRIVER INVERTING	04713 01295 01295 01295 01295 28480	MC 3DD1 P SN74H74N SN74HDDN SN74 O6N 1820-0756
U64 U65 U66 U67 U68	1820-0371 1820-0512 1820-0371 1820-0377 1820-0141	3	IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS DUAL O F/F(35 MHZ M1N.) 1C:TTL HS TRIPLE 3-INPT NAND GATE 1C:TTL HS DUAL 2-WIDE 2-INPT IC:TTL QUAD 2-INPT AND GATE	01295 01295 01295 01295 01295 04713	SN74H1 ON SN74H74N SN74H1 ON SN74H5 DN MC 3001 P
U71 U73 U74 U75 U76	1820-0141 1820-0756 1820-0141 1820-0141 1820-0424		IC:TTL DUAD 2-INPT AND GATE IC:TTL 8-81T ORIVER INVERTING IC:TTL QUAD 2-INPT AND GATE IC:TTL DUAD 2-INPT AND GATE IC:TTL HS HEX INVERTER	04713 28480 04713 04713 04713	MC3D01P 182D-0756 MC3D01P MC3D01P SN74H04N
U77 U78 U81 U82 U83	1820-0377 1820-0512 1820-0626 1820-0626 1820-0756	10	IC:TTL HS DUAL 2-WIDE 2-INPT 1C:TTL HS DUAL D F/F(35 MHZ MIN.) 1C:TTL 4-BIT LATCH 1C:TTL 4-BIT LATCH 1C:TTL 8-BIT DRIVER INVERTING	01295 D1295 07263 07263 28480	SN74H50N SN74H74N U78931459X U78931459X 182D-0756
U84 U86 U87 U88 U91	1820-0424 1820-0686 1820-0491 1820-076D 1820-0616	2 1 4 4	IC:TTL HS HEX INVERTER IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL SCD/DEC. DECODER/DRIVER IC:TTL 8-BIT RECEIVER INVERTING IC:TTL 4-BIT 2-INPT MULTIPLEXER	04713 D1295 D1295 2848D D7263	SN74H04N SN74S11N SN74145N 1820-D760 U78932259X
U92 U93 U94 U96 U97	1820-0616 1820-0756 1820-0141 1820-0141 1820-0374	1	C:TTL 4-BIT 2-INPT MULTIPLEXER 1C:TTL 8-BIT ORIVER INVERTING IC:TTL QUAD 2-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE 1C:TTL HS OUAL 4-INPT AND GATE	D7263 28480 04713 04713 01295	U78932259X 1820-0756 MC3001P MC3001P SN74H21N

Table 2-26. Universal Interface (TTL) PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U58 U101 U102 U103 U111	1820-0759 1823-0626 1820-0626 1820-0756 1820-0616	2	IC:TTL LOW-POWER 8-BIT RECEIVER IC:TTL 4-BIT LATCH IC:TTL 4-BIT LATCH IC:TTL 8-BIT DRIVER INVERTING IC:TTL 4-BIT 2-INPT MULTIPLEXER	28480 07263 07263 28480 07263	1820-0755 U78931459X U78931459X I820-0756 U78932259X
U112 U113 U114 U116 U117	1820-0616 1820-0626 1820-0626 1820-0424 1820-0715	2	IC:TTL 4-8IT 2-INPT MULTIPLEXER IC:TTL 4-8IT LATCH IC:TTL 4-8IT LATCH IC:TTL HS HEX INVERTER IC:TTL OIGITAL HI-SPEED J-K F/F	07263 07263 07263 07263 04713 01295	U78932259X U78931459X U78931459X SN74H04N SN74H106N
U12I U122 U123 U124 U126	1820-0844 1820-0844 1820-0626 1820-0626 1820-0900	1	IC:TIL OUAL 3-INPT PULSE SHAPER IC:TIL OUAL 3-INPT PULSE SHAPER IC:TIL 4-BIT LATCH IC:TIL 4-BIT LATCH IC:TIL TRIPLE 3-IMPT NUR GATE	04713 04713 07263 07263 28480	MC426P MC426P U78931459X U78931459X 1820-0900
U127 U131 U132 U133 U134	1820-0715 1820-0471 1820-0424 1820-0626		IC:TTL OIGITAL HI-SPEED J-K F/F IC:TTL HEX INVERTER W/OPEN CGLL.(30V) IC:TTL HS HEX INVERTER IC:TTL 4-BIT LATCH IC:TTL 4-BIT LATCH	01295 01295 04713 07263 07263	SN74H106N SN74D6N SN74H04N U78931459X U78931459X
U136 U137 U138 U142 U143	1820-0141 1820-0755 1820-0759 1820-0844 1820-0512	2	IC:TTL QUAO 2-INPT ANO GATE IC IC:TTL LOM-POMER 8-BIT RECEIVER IC:TTL OUAL 3-INPT PULSE SHAPER IC:TTL HS OUAL 0 F/F(35 MHZ MIN-)	04713 28480 28480 04713 01295	MC3001P 1820-0755 1820-0759 MC426P SN74H74N
U144 U146 U147 U148 U151	1820-0512 1820-0370 1820-0760 1820-0706 1820-0471	2	IC:TTL HS OUAL O F/F(35 MHZ MIN.) IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL 8-BIT RECEIVER INVERTING IC:OIGITAL TIL 5-BIT COMPARATOR IC:TTL HEX INVERTER W/OPEN CCLL.(30V)	01295 01295 28480 04713 01295	SN 74H74N SN 74H00N 1820-0760 U78932459X SN 7406N
U153 U154 U156 U158 U163	1820-0424 1820-0377 1820-0371 1820-0760 1820-0370		IC:TTL HS HEX INVERTER IC:TTL HS DUAL 2-WIDE 2-INPT IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL 8-BIT RECEIVER INVERTING IC:TTL HS OUAO 2-INPT NANO GATE	04713 01295 01295 28480 01295	SN74H04N SN74H50N SN74H10N 1820-0760 SN74H00N
U164 U166 U168 U171 U173	1820-0141 1820-0372 1820-0706 1820-0370 1820-0141	1	IC:TTL OUAD 2-INPT AND GATE IC:TTL TRIPLE 3-INPT AND GATE IC:DIGITAL TTL 5-BIT COMPARATOR IC:TTL HS OUAD 2-INPT NANO GATE IC:TTL QUAO 2-INPT ANO GATE	04713 28480 04713 01295 04713	MC3001P 1820-0372 U78932459X SN74H00N MC3001P
U174 U175 U176 U178 U181	1820-0761 1820-0141 1820-0424 1820-0756 1820-0370	1	IC:TTL OIGITAL IC:TTL OUAD 2-INPT AND GATE IC:TTL HS HEX INVERTER IC:TTL 8-BIT ORIVER INVERTING IC:TTL HS OUAD 2-INPT NANO GATE	28480 04713 04713 28480 01295	1820-0761 MC3001P SN74H04N 1820-0756 SN74H00N
U183 U184 U185 U186 U187	1820-0373 1820-0512 1820-0686 1820-0512 1820-0760	1	IC:TTL HS DUAL 4-INPT NANO GATE IC:TTL HS DUAL O F/F(35 MHZ MIN.) IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE IC:TTL HS DUAL O F/F(35 MHZ MIN.) IC:TTL 8-BIT RECEIVER INVERTING	01295 01295 01295 01295 01295 28480	SN74H20N SN74H74N SN74S1N SN74H74N 1820-0760
U188 U191 U193 U194 U195	1820-0756 1820-0370 1820-0512 1820-0424 1820-0301	1	IC:TTL 8-8IT ORIVER INVERTING IC:TTL HS OUAD 2-INPT NANO GATE IC:TTL HS OUAL O F/F(35 MHZ MIN.) IC:TTL HS HEX INVERTER IC:TTL OUAD 8I-STABLE O-LATCH	28480 01295 01295 04713 01295	1820-0756 SN74H00N SN74H74N SN74H104N SN7475N
U196 U197 W2 W4 W5	1820-0844 1820-0755 8159-0005 8159-0005 8159-0005	4	IC:TTL OUAL 3-INPT PULSE SHAPER IC JUMPER WIRE JUMPER WIRE JUMPER WIRE	04713 28480 28480 28480 28480	MC 426P 1820-0755 8159-0005 8159-0005 8159-0005
W1	81 59-000 5		JUMPER WIRE	28480	8159-0005

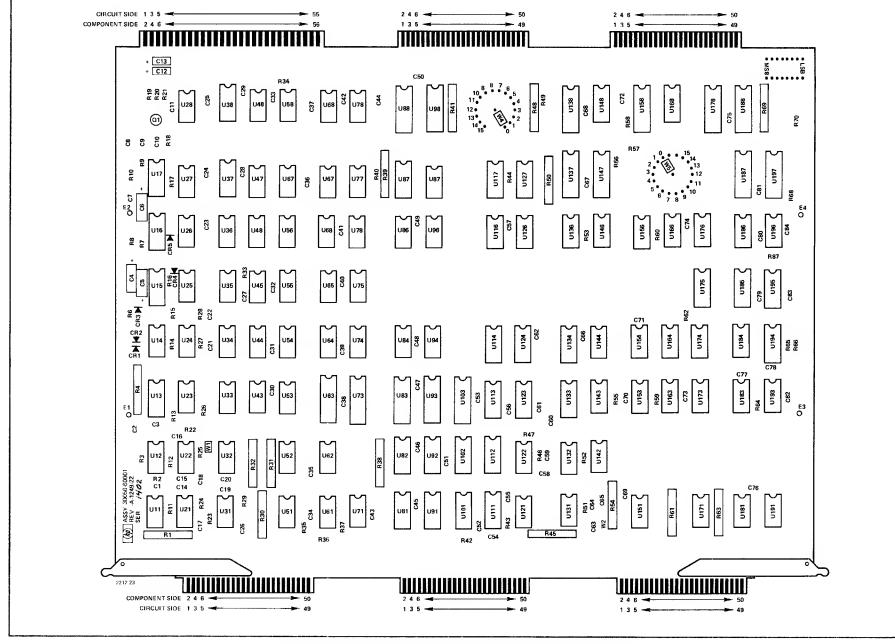


Figure 2-25. Universal Interface (TTL) PCA, Parts Location Diagram

Table 2-27. Universal Interface (Differential) PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30051-60001 D160-3457 0160-2204 0160-2204 0160-2307	1 27 27 2	UNIVERSAL INTERFACE(DIFFERENTIAL) PCA C:FXD OISC CER 0-DO2 UF 10% 250VOCW C:FXD MICA 100PF 5% C:FXD MICA 100PF 5% C:FXD MICA 47 PF 5%	28480 56289 72136 72136 28480	30051-60001 C 067F 251F 202K S22-CDH ROM15F101J3C RDM15F101J3C 0160-2307
C5 C6 C7 C8	0180-0228 0160-2940 0160-2307 0160-3457 0160-2204	1 2	C:FXO ELECT 22 UF 10% 15VDCW C:FXO MICA 470 PF 5% 300VDCW C:FXO MICA 47 PF 5% C:FXD 01SC CER 0.002 UF 10% 250VOCW C:FXO MICA 100PF 5%	56289 72136 28480 56289 72136	1500226X901582-DYS R0M15F471J3C 0160-2307 C067F251F202KS22-CDH R0M15F101J3C
C10 C11 C12 C13 C14	0160-2204 0160-3457 0160-3457 0160-2202 0160-2940	3	C:FXO MICA 100PF 5% C:FXO 0ISC CER 0.002 UF 10% 250V0CW C:FXO 0ISC CER 0.002 UF 10% 250V0CW C:FXO MICA 75 PF 5% C:FXO MICA 470 PF 5% 300V0CW	72136 56289 56289 28480 72136	RDM15F101J3C C067F251F202K522-CDH C067F251F202KS22-COH O160-2202 RDM15F471J3C
C15 C16 C17 C18 C19	0160-0938 0160-2055 0180-0197 0180-0197 0160-3457	1 42 2	C:FXO MICA 1000 PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXD ELECT 2.2 UF 10% 20VDCW C:FXD DISC CER 0.002 UF 10% 250VDCW	72136 56289 56289 56289 56289	RDM15E102J1C C023F101F103Z522-CDH 1500225X9020A2-0YS 150D225X9020A2-OYS C067F251F202KS22-CDH
C20 C21 C22 C23 C24	0160-3457 0160-3457 0160-3457 0160-2204 0160-2204		C:FX0 0ISC CER 0-002 UF 10% 250V0CW C:FX0 0ISC CER 0-002 UF 10% 250V0CW C:FX0 0ISC CER 0-002 UF 10% 250VDCW C:FX0 MICA 100PF 5% C:FX0 MICA 100PF 5%	56289 56289 56289 72136 72136	C067F251F202KS22-CDH C067F251F202KS22-CDH C067F251F202KS22-CDH R0M15F101J3C RDM15F101J3C
C25 C26 C27 C28 C29	D160-2204 0160-2204 0160-2055 0160-2209 0160-2055	1	C:FXD MICA 100PF 5% C:FXD MICA 100PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO MICA 360 PF 5% C:FXO CER 0.01 UF +80-20% 100VOCW	72136 72136 56289 72136 56289	RDM15F101J3C ROM15F101J3C CO23F101F1D3ZS22-CDH RDM15F361J3C CO23F101F103ZS22-CDH
C30 C31 C32 C33 C34	0160-2055 0160-2055 0160-3457 0160-3457 0160-3457		C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXD DISC CER 0-002 UF 10% 250VDCW C:FXD DISC CER 0-002 UF 10% 250VOCW C:FXO DISC CER 0-002 UF 10% 250VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22=CDH CD23F101F103ZS22=CDH C067F251F202KS22=CDH C067F251F202KS22=CDH C067F251F202KS22=COH
C35 C36 C37 C38 C39	0160-3457 0160-2204 0160-2204 0160-2204 0160-2204		C:FXO 01SC CER 0.002 UF 10% 250VDCW C:FXO M1CA 100PF 5% C:FXO M1CA 100PF 5% C:FXO M1CA 100PF 5% C:FXD M1CA 100PF 5%	56289 72136 72136 72136 72136	C067F251F202KS22-C0H R0M15F101J3C RDM15F101J3C R0M15F101J3C RDM15F101J3C
C40 C41 C42 C44 C45	0160-2055 0160-2055 D160-2055 0160-2055 0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22~C0H C023F101F103ZS22~CDH C023F101F103ZS22~CDH C023F101F103ZS22~C0H C023F101F103ZS22~C0H
C46 C47 C48 C49 C50	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FX0 CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 1D0VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C51 C52 C53 C53 C54	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055	9	C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C508IS-CML C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-COH C023F101F103ZS22-COH
C55 C56 C57 C58 C59	0160-2055 0160-2055 D150-0121 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100YDCW C:FXO CER 0.01 UF +80-20% 100YDCW C:FXO CER 0.1 UF +80-20% 50YDCW C:FXO CER 0.01 UF +80-20% 100YDCW C:FXO CER 0.01 UF +80-20% 100YDCW	56289 56289 56289 56289 56289	C023F101F103ZS22=CDH C023F101F103ZS22=CDH 5C5081S=CML C023F101F103ZS22=CDH C023F101F103ZS22=CDH
C60 C61 C62 C63 C64	0150-0121 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0-1 UF +80-20% 50VOCW C:FXO CER 0-01 UF +80-20% 100VOCW C:FXO CER 0-01 UF +80-20% 100VOCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	5C5081S-CML C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-C0H C023F101F103ZS22-CDH
C65 C66 C67 C68 C69	0150-0121 0160-2055 0160-2055 0160-3457 0160-3457		C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO 01SC CER 0-002 UF 10% 250VOCW C:FXO 01SC CER 0-002 UF 10% 250VDCW	56289 56289 56289 56289 56289	5C5081S-CML C023F101F103ZS22-C0H C023F101F103ZS22-CDH C067F251F202KS22-CDH C067F251F2C2KS22-CDH
C70 C71 C72 C73 C74	0160-2204 0160-2204 0160-2204 D160-3457 0160-2055		C:FXD MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXD DISC CER 0.002 UF 10% 250VDCW C:FXD CER 0.01 UF +80-20% 100VOCW	72136 72136 72136 56289 56289	ROM15F101J3C ROM15F101J3C ROM15F101J3C C067F251F202KS22-CDH C023F101F103ZS22-CDH

Table 2-27. Universal Interface (Differential) PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C75 C76 C77 C78 C79	0160-2055 0160-2055 0160-2055 0160-2055 0150-0121		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.1 UF +80-20% 50VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS22=C0H 5C5081S=CML
C80 C81 C82 C83 C84	0150-0121 0160-2055 0160-2055 0150-0121 0160-2055		C:FXO CER 0-1 UF +80-20% 50VOCW C:FXO CER 0-01 UF +80-20% 100VOCW C:FXO CER 0-01 UF +80-20% 50VOCW C:FXO CER 0-1 UF +80-20% 50VOCW C:FXO CER 0-01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	5C508IS-CHL C023F101F103ZS22-COH C023F101F103ZS22-COH 5C508IS-CML C023F101F103ZS22-COH
C85 C86 C87 C88 C89	0160-2204 0160-2204 0160-2204 0160-2204 0160-2055		C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO CER 0-01 UF +80-20% 100VDCW	72136 72136 72136 72136 72136 56289	ROM15F101J3C ROM15F101J3C ROM15F101J3C ROM15F101J3C CO23F101F103ZS22-COH
C90 C91 C92 C93 C94	0160-2055 0160-3457 0160-3457 0160-3457 0160-3457		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO 0ISC CER 0.002 UF 10% 250VOCW C:FXO 0ISC CER 0.002 UF 10% 250VOCW C:FXO 0ISC CER 0.002 UF 10% 250VOCW C:FXO 0ISC CER 0.002 UF 10% 250VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22=C0H C067F251F202KS22=C0H C067F251F202KS22=C0H C067F251F202KS22=C0H C067F251F202KS22=C0H
C95 C96 C97 C98 C99	0160-2204 0160-2204 0160-2204 0160-2204 0150-0121		C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO GER 0-1 UF +80-20% 50VDCW	72136 72136 72136 72136 72136 56289	ROM15F101J3C ROM15F101J3C ROM15F101J3C ROM15F101J3C 5C5081S-CML
C100 C101 C102 C103 C104	0160-3457 0160-3457 0160-3457 0160-3457 0160-2055		C:FXO 0ISC CER 0.002 UF 10% 250VDCW C:FXO 0ISC CER 0.002 UF 10% 250V0CW C:FXO 0ISC CER 0.002 UF 10% 250V0CW C:FXO 0ISC CER 0.002 UF 10% 250V0CW C:FXD CER 0.001 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C067F251F202KS22-COH C067F251F202KS22-COH C067F251F202KS22-COH C067F251F202KS22-COH C063F101F103ZS22-COH
C105 C106 C107 C108 C109	0160-2055 0160-2202 0160-2202 0150-0121 0160-3457		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO MICA 75 PF 5% C:FXO MICA 75 PF 5% C:FXO CER 0.1 UF +80-20% 50VOCW C:FXO OISC CER 0.002 UF 10% 250VOCW	56289 28480 28480 56289 56289	C023F101F103ZS22-COH 0160-2202 0160-2202 5C50B13-CML C067F251F202KS22-COH
C110 C111 C112 C113 C114	0160-3457 0160-3457 0160-3457 0160-2055 0160-2204		C:FXO OISC CER 0.002 UF 10% 250V0CW C:FXO OISC CER 0.002 UF 10% 250V0CW C:FXO OISC CER 0.002 UF 10% 250V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO MICA 100PF 5%	56289 56289 56289 56289 72136	C067F251F202KS22-C0H C067F251F202KS22-C0H C067F251F202KS22-C0H C023F101F103ZS22-C0H R0M15F101J3C
C115 C116 C117 CR1 Q1	0160-2204 0160-2204 0160-2204 1901-0081 1854-0094	1 1	C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% 0100E:SILICON 50 VOLTS WORKING TSTR:SI NPN	72136 72136 72136 07263 80131	ROM15F101J3C ROM15F101J3C ROM15F101J3C F01415 2N3646
R1 R2 R3 R4 R4	0757-0280 0757-0442 0757-0401 0698-3160 0757-0442	15 2 2 1	R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 100 OHM 1% 1/8W R:FXO MET FLM 31.6K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W	28480 28480 2848C 28480 28480	0757-0280 0757-0442 0757-0401 0698-3160 0757-0442
R5 R7 R8 R9 R10	0757-0280 0757-0401 1810-0030 0757-0394 0698-3158	8 1 1	R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 100 OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXO MET FLM 51.1 OHM 1% 1/8W R:FXO MET FLM 23.7K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0401 1810-0030 0757-0354 0698-3158
R11 R12 R13 R14 R15	0698-3154 0698-3154 1810-0030 0757-0280 1810-0030	2	R:FXO MET FLM 4-22K OHM 1% 1/8W R:FXO MET FLM 4-22K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA R:FXO MET FLM 1K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA	28480 28480 28480 28480 28480	0698-3154 0698-3154 1810-0030 0757-C280 1810-0030
R16 R17 R18 R19 R20	0757-0280 1810-0030 1810-0030 0698-3442 1810-0030	1	R:FXO MET FLM 1K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA R:FXO MET FLM 237 OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA	28480 28480 28480 28480 28480	0757-0280 1810-0030 1810-0030 0698-3442 1810-0030
R21 R22 R23 R24 R25	0757-0280 0757-0280 1810-0030 0757-0280 0757-0280		R:FXO MET FLM IK OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W NETWORK:7 RESISTORS IK OHM 5% 0.15W EA R:FXO MET FLM IK OHM 1% 1/8W R:FXO MET FLM IK OHM 1% 1/8W	28480 28480 28480 28480 28480	0 757-C2 80 0 757-0280 1 810-0030 0 757-0280 0 757-0280
R26 R27 R28 R29 R30	0757-0280 0757-0280 0757-0280 0757-0280 1810-0030		R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA	28480 28480 28480 28480 28480	0757-0280 0757-0280 0757-0280 0757-0280 1810-0030

Table 2-27. Universal Interface (Differential) PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R31 R32 R33 R34 R35	0757-0280 075T-0279 075T-0279 0757-0280 0757-0280	2	R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 3-16K OHM 1% 1/8W R:FXO MET FLM 3-16K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	2848 0 2848 0 2848 0 2848 0 2848 0	0757-0280 0757-0279 0757-0279 0757-0280 0757-0280
R36 U11	0698-3440 1820-CT21	15	R:FXD MET FLM 196 OHM 1% 1/8W 1C:TTL DUAL D1FFERENT. LINE RECEIVER	28480 12040	0698-3440 0m882cn
U12 U13 U14 U15	1820-0721 1820-0834 1820-0239 1820-0515	1 1 2	IC:TTL QUAL OIFFERENT. LINE RECEIVER IC:TTL 1 OF 8 DECODER W/INVERT CONTROL IC:TTL QUAD 2-INPT NOR GATE	12040 04713 28480	0H882CN MC4038P 1820-0239
U16	1820-0141	16	IC:TTL QUAD 2-INPT AND GATE	07263 04713	U7B960259X
U17 U21 U22 U23	1820-0515 1820-0721 1820-0721 1820-0512	14	IC:TTL DUAL RE-TRIG/RE-SET MOND-MULTI IC:TTL OUAL OIFFERENT. LINE RECEIVER IC:TTL QUAL OIFFERENT. LINE RECEIVER IC:TTL HS OUAL O F/F(35 MHZ HIN.)	07263 12040 12040 01295	U7B96Q259X OH882ON OM882ON SN74H74N
U24 U25	1820-0844 1820-0512	2	IC:TTL QUAL 3-INPT PULSE SHAPER IC:TTL HS QUAL Q F/F(35 MHZ MIN.)	04713 01295	MC426 P SN74H74N
U26 U27 U28	1820-0205 1820-0370 1820-0141	1 4	IC:TTL QUAO 2-INPT OR GATE IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL QUAO 2-INPT AND GATE	28480 01295 04713	1820~0205 SN74H0GN HC3001P
U31 U32	1820-0721 1820-0721		IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL DIFFERENT. LINE RECEIVER	12040 12040	0M8820N 0M8820N
U33 U34 U35	1820-0512 1820-0424 1820-0141	8	IC:TTL HS OUAL O F/F(35 MHZ MIN.) IC:TTL HS HEX INVERTER IC:TTL QUAD 2-INPT AND GATE	01295 04713 04713	SN74H74N SN74H04N MC3001P
U36 U3T	1820-0141 1820-0629	1	IC:TTL QUAO 2-INPT ANO GATE IC:TTL SHS QUAL EOGE TRIG. J-K F/F	04T13 01295	MC3001P SN74S112N
U38 U43 U44	1820-0574 1820-0512 1820-03T5	1	IC:OIGITAL TTL QUAO D-F/F IC:TTL HS QUAL O F/F(35 MHZ MIN.) IC:TTL HS 8-INPT NANO GATE	12046 01295 01295	0M8551N SN74H74N SN74H30N
U45 U46	1820-03T1 1820-03T0	4	IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL HS QUAO 2-INPT NANO GATE	01295 01295	SNT4H10N SNT4HCON
U47 U48 U51	1820-0424 1820-0141 1820-0720	11	IC:TTL HS HEX INVERTER IC:TTL QUAC 2-INPT ANO GATE IC:TTL QUAL OIFFERENTIAL LINE ORIVER	04713 04713 28480	SN74H04N MC3001P 1820-0720
U52 U53	1820-0720 1820-0512		IC:TTL OUAL OIFFERENTIAL LINE ORIVER IC:TTL HS OUAL O F/F(35 HHZ H1N.)	2848C G1295	1820-6720 SN74HT4N
U54 U55 U56	1820-0141 1820-0512 1820-0282	1	IC:TTL QUAD 2-INPT AND GATE IC:TTL HS OUAL O F/F(35 MHZ HIN.) 1C:TTL QUAO 2-INPT EXCL. OR GATE	04713 01295 01295	MC3G01P SN74H74N SN7486N
บ57 บ58 บ61	1820-0141 1820-0512		IC:TTL QUAO 2-INPT AND GATE IC:TTL HS DUAL O F/F(35 MHZ MIN.)	04713 01295	MC3001P SN74H74N
U63 U64	1820-0720 1820-0756 1820-03T1	7	IC:TTL OUAL OIFFERENTIAL LINE ORIVER IC:TTL 8-8IT ORIVER INVERTING IC:TTL HS TRIPLE 3-INPT NANO GATE	28480 28480 01295	1820-0720 1820-0756 SN74H10N
U65 U66	1820-0512 1820-03T1	3	IC:TTL HS DUAL O F/F(35 MHZ MIN.) IC:TTL HS TRIPLE 3-INPT NANO GATE	01295 01295	SN74H74N SN74H10N
U67 U68 U71	1820-0377 1820-0141 1820-0720	3	IC:TTL HS OUAL 2-WIDE 2-INPT IC:TTL QUAO 2-INPT ANO GATE IC:TTL OUAL OIFFERENTIAL LINE ORIVER	01295 04713 28480	SN74H50N MC3001P 1820-C720
U72 U73	1820-0720 1820-0756		IC:TTL DUAL OIFFERENTIAL LINE ORIVER IC:TTL 8-81T ORIVER INVERTING	28480 28480	1820-0720 1820-0756
U74 U75 U76	1820-0141 1820-0141 1820-0424		IC:TTL QUAO 2-INPT ANO GATE IC:TTL QUAO 2-INPT ANO GATE IC:TTL HS HEX INVERTER	04713 04713 04713	MC3001P HC3001P SN74H04N
U77 U78	1820-03T7 1820-0512		IC:TTL HS OUAL 2-WIGE 2-INPT IC:TTL HS OUAL O F/F(35 MHZ MIN.)	01295 01295	SN74H 5CN SN74H74N
U81 U82 U83	1820-0626 1820-0626 1820-0756	10	IC:TTL 4-8IT LATCH IC:TTL 4-8IT LATCH IC:TTL 8-BIT ORIVER INVERTING	0T263 07263 28480	UT8931459X UTB931459X 1820-0756
U84 U86	1820-0424 1820-0686	2	IC:TTL HS HEX INVERTER IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE	04713 01295	SN74H04N SN74S11N
U8T U88 U91	1820-0491 1820-0760 1820-0616	1 4 4	IC:TTL 8CD/OEC. OECOOER/DRIVER IC:TTL 8-8IT RECEIVER INVERTING IC:TTL 4-8IT 2-INPT MULTIPLEXER	01295 28480 0T263	SN74145N 1820-0760 U78932259X
U92 U93	1820-0616 1820-0756		IC:TTL 4-8IT 2-INPT MULTIPLEXER IC:TTL 8-BIT ORIVER INVERTING IC:TTL QUAO 2-INPT ANO GATE	0T263 28480	UT8932259X 1820-0T56
U94 U96 U97	1820-0141 1820-0141 1820-0374	1	IC:ITL QUAO 2-INPT AND GATE IC:TTL QUAO 2-INPT AND GATE IC:TTL HS DUAL 4-INPT AND GATE	04713 04713 01295	MC3001P MC3001P SN74H21N
U98 U101	1820-0759 1820-0626	2	IC:TTL LOM-POWER 8-8IT RECEIVER IC:TTL 4-8IT LATCH	28480 07263	1820-0759 U78931459X
U102 U103 U111	1820-0626 1820-0756 1820-0616		IC:TTL 4-BIT LATCH IC:TTL 8-8IT ORIVER INVERTING IC:TTL 4-BIT 2-INPT MULTIPLEXER	07263 28480 07263	U78931459X 1820-0756 U78932259X

Table 2-27. Universal Interface (Differential) PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U112 U113 U114 U116 U117	1820-0616 1820-0626 1820-0626 1820-0424 1820-0715	2	IC:TTL 4-8IT 2-INPT MULTIPLEXER IC:TTL 4-8IT LATCH IC:TTL 4-8IT LATCH IC:TTL HS HEX INVERTER IC:TTL DIGITAL HI-SPEED J-K F/F	07263 07263 07263 07263 04713 01295	U78932259X U78931459X U78931459X SN74H04N SN74H106N
U121 U122 U123 U124 U126	1820-0721 1820-0721 1820-0626 1820-0626 1820-0900	1	IC:TTL OUAL OIFFERENT. LINE RECEIVER IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL 4-81T LATCH IC:TTL 4-BIT LATCH IC:TTL TRIPLE 3-INPT NOR GATE	12040 12040 0T263 0T263 28480	DM8820N DM8820N UT8931459X UT8931459X 1820-0900
U12T U131 U132 U133 U134	1820-0T15 1820-0T20 1820-0T20 1820-0626 1820-0626		IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL DUAL DIFFERENTIAL LINE DRIVER IC:TTL OUAL DIFFERENTIAL LINE DRIVER IC:TTL 4-81T LATCH IC:TTL 4-81T LATCH	01295 28480 28480 07263 07263	SN74H106N 1820-C720 1820-C720 UT8931459X UT8931459X
U136 U137 U138 U141 U142	1820-0141 1820-0755 1820-0759 1820-0720 1820-0720	2	IC:TTL QUAD 2-INPT AND GATE IC IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL DUAL OIFFERENTIAL LINE DRIVER IC:TTL OUAL OIFFERENTIAL LINE DRIVER	04T13 28480 28480 28480 28480	MC3001P 1820-0755 1820-0759 1820-0720 1820-0720
U143 U144 U146 U14T U148	1820-0512 1820-0512 1820-03T0 1820-0760 1820-0706	2	IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL HS QUAD 2—INPT NAND GATE IC:TTL 8—81T RECEIVER INVERTING IC:OIGITAL TTL 5—81T COMPARATOR	01295 01295 01295 28480 04713	SNT4H74N SNT4H74N SNT4H00N 1820-0T60 U78932459X
U151 U152 U153 U154 U156	1820-0720 1820-0720 1820-0424 1820-0377 1820-0371		IC:TTL DUAL OIFFERENTIAL LINE DRIVER IC:TTL DUAL DIFFERENTIAL LINE DRIVER IC:TTL HS HEX INVERTER IC:TTL HS DUAL 2-WIDE 2-INPT IC:TTL HS TRIPLE 3-INPT NANO GATE	28480 28480 04713 01295 01295	1820–0720 1820–0720 SN74H04N SN74H50N SN74H10N
U158 U163 U164 U166 U168	1820-0760 1820-0370 1820-0141 1820-0372 1820-0706	1	IC:TTL 8-81T RECEIVER INVERTING IC:TTL HS QUAO 2-INPT NAND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL TRIPLE 3-INPT AND GATE IC:OIGITAL TTL 5-81T COMPARATOR	28480 01295 04T13 28480 04713	1820-0760 SN74H00N MC3001P 1820-03T2 UT8932459X
UIT1 U1T2 U173 U174 U175	1820-0721 1820-0721 1820-0141 1820-0761 1820-0141	1	IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAD 2-INPT AND GATE IC:TTL DIGITAL IC:TTL QUAD 2-INPT AND GATE	12040 12040 04713 28480 04713	DM8820N DM8820N MC3001P 182C-0T61 MC3001P
U176 U178 U181 U181 U182	1820-0424 1820-0756 1820-0721 1820-0721 1820-0721		IC:TTL HS HEX INVERTER IC:TTL 8-8IT DRIVER INVERTING IC:TTL OUAL OIFFERENT. LINE RECEIVER IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL OIFFERENT. LINE RECEIVER	04713 2848C 12040 12040 12040	SNT4H04N 1820-0T56 OM882ON OM882ON OM882ON OM882ON
U183 U184 U185 U186 U187	1820-0373 1820-0512 1820-0686 1820-0512 1820-0760	1	IC:TTL HS DUAL 4-INPT NAND GATE IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL 8-8IT RECEIVER INVERTING	01295 01295 01295 01295 01295 28480	SNT4H2CN SNT4H74N SNT4S11N SNT4H74N 1820-0T60
U188 U191 U192 U193 U194	1820-0 T56 1820-0 T21 1820-0 T21 1820-0 512 1820-0 424		IC:TTL 8-81T ORIVER INVERTING IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL HS HEX INVERTER	28480 12040 12040 01295 04713	1820–0756 DM8820N OM882CN SN74H74N SN74H04N
U195 U196 U197 W1 W2	1820-0301 1820-0844 1820-0755 8159-0005 8159-0005	1	IC:TTL QUAD 81-STA8LE D-LATCH IC:TTL DUAL 3-INPT PULSE SHAPER IC JUMPER WIRE JUMPER WIRE	01295 04T13 28480 28480 28480	SN7475N MC426P 1820-0T55 8159-0005 8159-0005
₩3 ₩4	8159-0005 8159-0005		JUMPER WIRE JUMPER WIRE	2848D 28480	8159-0005 8159-0005

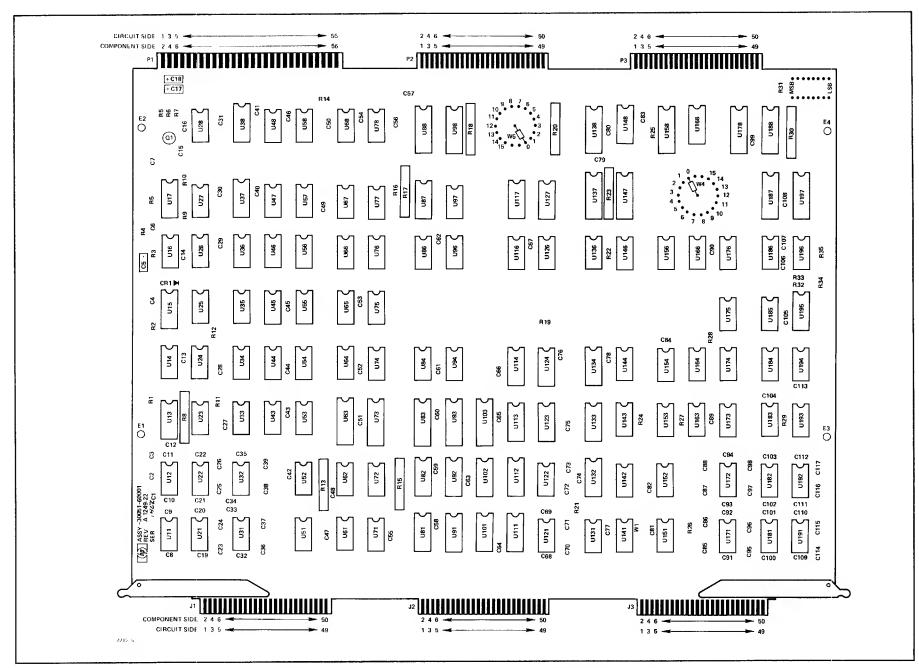


Figure 2-26. Universal Interface (Differential) PCA, Parts Location Diagram

 $Table\ 2\text{-}28.\ Universal\ Interface\ (Optical)\ PCA,\ Replaceable\ Parts$

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Table 2-29. Synchronous Data Modem (201/203) IF PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
	30055-60001	1	SYNCHRONDUS DATA MODAM(201/203)IF PCA	28480	30055-60001
C1	0140-0200	18	C:FXO MICA 390 PF 5%	72136	RDM15F391~J3C
C2 C3 C4 C5 C6	0180-0291 0180-0291 0160-2202 0160-2202 0160-2055	2 2 21	C:FXD ELECT 1.0 UF 1D% 35VDCW C:FXO ELECT 1.0 UF 10% 35VDCW C:FXO MICA 75 PF 5% C:FXD MICA 75 PF 5% C:FXD CER 0.01 UF +80-20% 100V0CW	56289 56289 28480 28480 56289	1500105X9035A2-DYS 150D105X9035A2-OYS 0160-2202 0160-2202 C023F101F103ZS22-CDH
C7 C8 C9 C10	0180-0228 0140-0200 0140-0200 0140-0200 0140-0200	1	C:FXD ELECT 22 UF 10% 15VDCW C:FXD MICA 390 PF 5%	56289 72136 72136 72136 72136 72136	150D226X901582-DYS ROM15F391-J3C ROM15F391-J3C RDM15F391-J3C ROM15F391-J3C
C12 C13 C14 C15 C16	0140-0200 0140-0200 0140-0200 0140-0200 0140-0200		C:FXD MICA 390 PF 5% C:FXO MICA 390 PF 5%	72136 72136 72136 72136 72136 72136	RDM15F391-J3C RDM15F391-J3C ROM15F391-J3C ROM15F391-J3C ROM15F391-J3C
C17 C18 C19 C20 C21	01 40-0200 0140-0200 0140-0200 0140-0200 0140-0200		C:FXO MICA 390 PF 5% C:FXO MICA 390 PF 5% C:FXO MICA 390 PF 5% C:FXO MICA 390 PF 5% C:FXD MICA 390 PF 5%	72136 72136 72136 72136 72136 72136	ROM15F391-J3C ROM15F391-J3C ROM15F391-J3C ROM15F391-J3C RDM15F391-J3C
C22 C23 C24 C25 C26	0140-D200 0140-D200 0160-2055 0160-2055 0160-2055		C:FXO MICA 390 PF 5% C:FXO MICA 390 PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	72136 72136 56289 56289 56289	ROM15F391-J3C ROM15F391-J3C CO23F101F103Z522-CDH CO23F101F103Z522-CDH CO23F101F103Z522-CDH
C27 C28 C29 C30 C31	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C32 C33 C34 C35 C36	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0-01 UF +80-20% 100V0CW C:FXD CER 0-01 UF +80-20% 100V0CW C:FXO CER 0-01 UF +80-20% 100V0CW C:FXO CER 0-01 UF +80-20% 100V0CW C:FXD CER 0-01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103LS22-C0H C023F101F103LS22-CDH C023F101F103LS22-CDH C023F101F103LS22-CDH C023F101F103LS22-CDH
C37 C38 C39 C40 C41	0160-2055 0160-2055 0160-2055 0160-2055 0180-0137	1	C:FX0 CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FX0 CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD ELECT 100 UF 20% 10VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 150D107X0010R2-DYS
C42 C43 C44 CR1 CR2	0160-2055 0160-2055 0160-2055 1902-3104 1902-3104	2	C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW DIODE:8REAKOWN 5.62V 5% DIODE:8REAKOWN 5.62V 5%	56289 56289 56289 04713 04713	C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-CDH SZ10939-110 SZ10939-110
CR3 CR4 L1 R1 R2	1901-0040 1901-0040 9100-2265 0757-0278 0757-0280	2 1 2 6	OIODE:SILICDN 50 MA 30 MV DIGDE:SILICON 50 MA 30 MV COLL/CHOKE:10.0 UH 10% R:FXD MET FLM 1.78K OHM 1% 1/8W R:FXD MET FLM 1k CHM 1% 1/8W	07263 07263 28480 28480 28480	FDG1088 FDG1088 9100-2265 0757-0278 0757-0280
R3 R4 R5 R6 R7	0757-0278 1810-0125 0698-3155 0698-3155 0698-3155	8 34	R:FXO MET FLM 1.78K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0278 1810-0125 0698-3155 0698-3155 0698-3155
R8 R9 R10 R11 R12	0757-0279 0757-0279 0757-0280 0698-3155 0698-3155	2	R:FXO MET FLM 3-16K OHM 1% 1/8W R:FXD MET FLM 3-16K OHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 4-64K OHM 1% 1/8W R:FXD MET FLM 4-64K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0279 0757-0279 0757-0280 0698-3155 0698-3155
R13 R14 R15 R16 R17	0698-3155 0698-3155 0698-3155 0757-0280 0698-3155		R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3155 0698-3155 0698-3155 0757-0280 0698-3155
R18 R19 R20 R21 R22	1810-0030 0698-3155 0698-3155 0698-3155 0698-3155	3	NETWORK:7 RESISTORS 1K DHM 5% 0-15W EA R:FXO MET FLM 4-64K DHM 1% 1/8W R:FXD MET FLM 4-64K UHM 1% 1/8W R:FXD MET FLM 4-64K DHM 1% 1/8W R:FXD MET FLM 4-64K DHM 1% 1/8W	28480 28480 28480 28480 28480	1810-0030 0698-3155 0698-3155 0698-3155 0698-3155

Table 2-29. Synchronous Data Modem (201/203) IF PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R23 R24 R25 R26 R27	0698-3155 0698-3155 0698-3155 0698-3155 0698-3155		R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3155 0698-3155 0698-3155 0698-3155 0698-3155
R 28 R 29 R 3D R 31 R 32	0757-0280 1810-0125 0698-4421 1810-0030 1810-0030	1	R:FXD MET FLM 1K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W R:FXD FLM 249 DHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA	28480 28480 28480 28480 28480	0757-0280 1810-0125 0698-4421 1810-0030 1810-0030
R33 R34 R35 R36 R37	0757-0280 1810-0125 0698-3155 1810-0125 1810-0125		R:FXD MET FLM 1K CHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W R:FXD MET FLM 4.64K CHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W	28480 28480 28480 28480 28480	0757-0280 1810-0125 0698-3155 1810-0125 1810-0125
R38 R39 R40 R41 R42	0757-0280 0698-3155 0698-3155 1810-0125 0698-3155		R:FXO MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W R:FXD MET FLM 4.64K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0698-3155 0698-3155 1810-0125 0698-3155
R43 R44 R45 R46 R47	0698-3155 0698-3155 0698-3155 0698-3155 0698-3155		R:FXD MET FLM 4-64K DHM 1% 1/8W R:FXD MET FLM 4-64K DHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3155 0698-3155 0698-3155 0698-3155 0698-3155
R48 R49 R50 R51 R52	0698-3155 0698-3155 0698-3155 0698-3155 0698-3155		R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-3155 0698-3155 0698-3155 0698-3155 0698-3155
R53 R54 R55 R56 U12	0698-3155 1810-0125 0698-3155 1810-0125 1820-0054	4	R:FXD MET FLM 4.64K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W R:FXO MET FLM 4.64K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W 1C:TTL QUAD 2-INPT NAND GATE	28480 28480 28480 28480 01295	0698-3155 1810-0125 0698-3155 1810-0125 SN7400N
U13 U14 U15 U16 U17	1820-0617 1820-0077 1820-0715 1820-0077 1820-0512	2 10 9	IC:TTL QUAD 2-INPT EXCL. NOR GATE IC:TTL QUAL D F/F IC:TTL OIGITAL HI-SPEED J-K F/F IC:TTL QUAL O F/F IC:TTL HS DUAL D F/F(35 MHZ MIN.)	04713 01295 01295 01295 01295	MC3022P SN7474N SN74H106N SN7474N SN74H74N
U18 U19 U21 U22 U23	1820-0371 1820-0141 1820-0509 1820-0990 1820-0990	2 10 2 2	IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL DUAD 2-INPT AND GATE IC:TOTL DUAD 1-2-2-2-INPT NANO LINE OR IC IC	01295 04713 04713 28480 28460	SN74H10N HC3001P MC 1488L 1820-0990 1820-0990
U24 U25 U26 U27 U28	1820-0077 1820-0715 1820-0239 1820-0077 1820-0512	3	IC:TTL DUAL D F/F IC:TTL DUAL D F/F IC:TTL DUAD 2-INPT NOR GATE IC:TTL DUAL D F/F IC:TTL DUAL D F/F IC:TTL HS DUAL D F/F(35 MHZ MIN.)	01295 01295 28480 01295 01295	SN7474N SN74H106N 1820-0239 SN7474N SN74H74N
U29 U35 U38 U39 U41	1820-0844 1820-0509 1820-0372 1820-0686 1820-0845	1 3 1 6	IC:TTL DUAL 3-INPT PULSE SHAPER IC:DTL DUAD 1-2-2-2-INPT NAND LINE DR IC:TTL TRIPLE 3-INPT AND GATE IC:TTL SCHOTKY TRIPLE 3-INPT AND GATE IC:TTL 8-BIT CONTENT ADDRESSABLE MEMORY	04713 04713 28480 01295 28480	MC 426P MC 1488L 1820-0372 SN74511N 1620-0845
U42 U43 U44 U45 U46	1820-0845 1820-0239 1820-0077 1820-0099 1820-0637	2 4	IC:TTL 8-8IT CONTENT ADDRESSABLE MEMORY IC:TTL QUAO 2-INPT NOR GATE IC:TTL DUAL D F/F IC:TTL 4-BIT 8INARY COUNTER IC:TTL TRIPLE 3-INPT NOR GATE	28480 28480 01295 01295 18324	1820-0845 1820-0239 SN7474N SN7499N N8875A
U47 U48 U49 U51 U52	1820-0372 1620-0077 1820-0372 1820-0845 1820-0845		IC:TTL TRIPLE 3-INPT AND GATE IC:TTL DUAL D F/F IC:TTL TRIPLE 3-INPT AND GATE IC:TTL TRIPLE 3-INPT AND GATE IC:TTL 8-8IT CONTENT ADDRESSABLE MEMORY IC:TTL 8-8IT CONTENT ADDRESSABLE MEMORY	28480 01295 28480 28480 28480	1820-0372 SN7474N 1820-0372 1820-0845 1820-0845
U53 U54 U55 U56 U57	1820-0141 1820-0205 1820-0141 1820-0715 1820-0715	4	IC:TTL DUAD 2-INPT AND GATE IC:TTL QUAD 2-INPT OR GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL OIGITAL HI-SPEED J-K F/F IC:TTL OIGITAL HI-SPEED J-K F/F	04713 28480 04713 01295 01295	MC3001P 1820-0205 MC3001P SN74H106N SN74H106N
U58 U59 U68 U69 U71	1820-0424 1820-0301 1820-0424 1820-0900 1820-0845	9	IC:TTL HS HEX INVERTER IC:TTL OUAD BI-STABLE D-LATCH IC:TTL HS HEX INVERTER IC:TTL TRIPLE 3-INPT NOR GATE IC:TTL 8-81T CONTENT ADDRESSABLE MEMDRY	04713 01295 04713 28480 28480	SN74H04N SN7475N SN74H04N 1820-0900 1820-0845

Table 2-29. Synchronous Data Modem (201/203) IF PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
UT2 U73 U74 U75 UT6	1820-0845 1820-0239 1820-0906 1820-0906	3	IC:TTL 8-8IT CONTENT ADORESSABLE MEMORY IC:TTL QUAD 2-INPT NOR GATE IC:DIGITAL TTL QUAL 4-INPT MULTIPLEXER IC:OIGITAL TTL QUAL 4-INPT MULTIPLEXER IC:TTL DIGITAL HI-SPEED J-K F/F	28480 28480 12040 12040 01295	1820-0845 1820-0239 DM8214N DM8214N SN74H106N
U7T U78 U79 U81 U83	1820-0655 1820-0370 1820-0141 1820-0424 1820-063T	1	IC:TTL DUAL INPUT NOR GATE WITH STROBE IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL HS HEX INVERTER IC:TTL TRIPLE 3-INPT NOR GATE	01295 01295 04713 04713 18324	SN23684 SNT4H00N MC3001P SN74H04N N88T5A
U83 U84 U85 U86 U8T	1820-0788 1820-0205 1820-0839 1820-0715 1820-0141	7	IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL DUAD 2-INPT OR GATE IC:TTL QUAD D-TYPE F/F IC:TTL DUGITAL HI-SPEED J-K F/F IC:TTL DUAD 2-INPT AND GATE	01295 28480 01295 01295 04713	SN35431 1820-0205 SN T4175N SN 74H1J6N MC3001P
U88 U89 U91 U101 UID2	1820-0715 1820-0761 1820-0834 1820-0141 1820-05T4	1 2 8	IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL DIGITAL IC:TTL 1 DF 8 DECODER W/INVERT CONTROL IC:TTL QUAO 2-INPT AND GATE IC:DIGITAL TTL QUAD D-F/F	01 295 28480 04713 04713 12040	SN74H106N 182D-0T61 MC4038P MC3001P DM8551N
U103 U104 U105 UID6 U1D7	1820-0574 i820-0759 1820-0374 1820-0839 1820-0282	5 3	IC:DIGITAL TTL QUAD O-F/F IC:TTL LOW-POWER 8-81T RECEIVER IC:TTL HS DUAL 4-INPT ANO GATE IC:TTL QUAD O-TYPE F/F IC:TTL QUAD 2-INPT EXCL. DR GATE	12040 28480 01295 01295 01295	DM8551N 1820-0759 SN74H21N SN74 175N SN74 88N
U1D8 U109 U111 U112 U113	1820-0715 1820-0424 1820-0839 1820-0574 1820-0574		IC:TTL OIGITAL HI-SPEED J-K F/F IC:TTL HS HEX INVERTER IC:TTL QUAD D-TYPE F/F IC:OIGITAL TTL OUAD O-F/F IC:OIGITAL TTL OUAD O-F/F	01295 04713 01295 12040 12040	SN74H106N SN74H04N SN74175N DM8551N DM8551N
U114 U115 U116 U117 U118	1820-0759 1820-0077 1820-0424 1820-0141 1820-0141		IC:TTL LOW-POWER 8-81T RECEIVER IC:TTL OUAL O F/F IC:TTL HS HEX INVERTER IC:TTL OUAO 2-INPT ANO GATE IC:TTL OUAD 2-INPT ANO GATE	28480 01295 04713 04713	182D-0T59 SN7474N SN74H04N MC3001P MC3001P
U119 U121 U123 U124 U125	1820-0759 1820-0738 1820-0906 1820-0231 1820-0424	1	IC:TTL LOW-POWER 8-81T RECEIVER IC:DIGITAL OUAL 2-4 LINE DECODER IC:DIGITAL TTL OUAL 4-INPT MULTIPLEXER IC:TTL 4-8IT SYNC 8INARY COUNTER IC:TTL MS HEX INVERTER	28460 01295 12040 07263 04T13	1820-0159 SN74155N OM8214N U68931659X SN144104N
U126 U128 U131 U133 U134	1820-0054 1820-0374 1820-0759 1820-0839 1820-0231		IC:TTL OUAD 2-INPT NAND GATE IC:TTL MS OUAL 4-INPT AND GATE IC:TTL LOW-POWER 8-BIT RECEIVER IC:TTL QUAO D-TYPE F/F IC:TTL 4-BIT SYNC BINARY COUNTER	01295 D1295 28480 D1295 OT263	SNT40DN SNT4H21N 1820-0T59 SNT4175N U68931659X
U135 U136 U138 U141 U143	1820-0231 1820-0834 1820-0760 1820-0760 1820-0788	5	IC:TTL 4-8IT SYNC 8INARY COUNTER IC:TTL 1 OF 8 OECODER W/INVERT CONTROL IC:TTL 8-8IT RECEIVER INVERTING IC:TTL 8-8IT RECEIVER INVERTING IC:TTL HEX D-TYPE FLIP/FLOP WITH CLEAR	07263 04T13 28480 28480 01295	U68931659X MC4038P 1820-0T60 1820-0T60 SN35431
U146 U148 U149 U151 U153	1820-0788 1820-0491 1820-0759 1820-0205 1820-0788	1	IC:TTL HEX D-TYPE FLIP/FLOP WITH CLEAR IC:TTL 8CO/DEC. DECODER/ORIVER IC:TTL LOW-POWER 8-BIT RECEIVER IC:TTL GUAD 2-INPT OR GATE IC:TTL HEX O-TYPE FLIP/FLDP WITH CLEAR	01 295 01 295 28480 28480 01 295	SN35431 SN74145N 1820-0759 1820-0205 SN35431
U154 U155 U156 U159 U169	1820-0788 1820-0788 1820-0788 1820-0141 1820-076D		IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL OUAD 2-INPT AND GATE IC:TTL 8-8IT RECEIVER INVERTING	DI 295 01295 01295 01295 04713 28480	SN3543I SN35431 SN35431 MC3001P 1820-0T60
U1T1 U172 U174 U1T5 U176	1820-D424 1820-0231 1820-0574 1820-D574 1820-0424		IC:TTL HS HEX INVERTER IC:TTL 4-BIT SYNC BINARY COUNTER IC:DIGITAL TIL QUAD 0-F/F IC:DIGITAL TIL QUAD 0-F/F IC:TTL HS HEX INVERTER	D4713 0T263 12040 12040 D4713	SNT4H04N U68931659X OM8551N DM8551N SN74H04N
U1T8 U179 U181 U182 U183	1820-0760 1820-0755 1820-0231 1820-0231 1820-0141	2	IC:TTL 8-81T RECEIVER INVERTING IC IC:TTL 4-81T SYNC 81NARY COUNTER IC:TTL 4-B1T SYNC 81NARY COUNTER IC:TTL 0UAO 2-INPT AND GATE	28480 28480 0T263 07263 04T13	1820-0T60 1820-0755 U68931659X U68931659X WC 3001P
U184 U185 U186 U187 U188	1820-0574 1820-0574 1820-0205 1820-0054 1820-0T55		IC:OIGITAL TTL QUAO O-F/F IC:DIGITAL TTL QUAD O-F/F IC:TTL QUAD 2-INPT OR GATE IC:TTL QUAD 2-INPT NAND GATE IC	12 040 12040 2848D 01295 28480	DM8551N OM8551N 1820-0205 SN740ON 1820-0T55

Table 2-29. Synchronous Data Modem (201/203) IF PCA. Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U189 U191 U198 U201 U202	1820-0756 1820-0616 1820-0706 1820-0077 1820-0077	2 1 2	IC:TTL 8-8IT ORIVER INVERTING IC:TTL 4-8IT 2-INPT MULTIPLEXER IC:DIGITAL TTL 5-8IT COMPARATOR IC:TTL OUAL O F/F IC:TTL OUAL O F/F	28480 07263 04713 01295 01295	1820-0756 U78932259X U78932459X SN7474N SN7474N
U203 U204 U205 U206 U207	1820-0099 1820-0424 1820-0368 1820-0368 1820-0637	2	IC:TTL 4-BIT BINARY COUNTER IC:TTL HS HEX INVERTER IC:TTL 5-BIT SHIFT REGISTER IC:TTL 5-BIT SHIFT REGISTER IC:TTL TRIPLE 3-INPT NOR GATE	01295 04713 01295 01295 18324	SN 7493N SN 74H04N SN 7496N SN 7496N N 8 8 7 5 A
U208 U209 U211 U212 U213	1820-0706 1820-0756 1820-0077 1820-0371 1820-0054		IC:OIGITAL TTL 5-8IT COMPARATOR IC:TTL 8-8IT ORIVER INVERTING IC:TTL OUAL O F/F IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL OUAO 2-INPT NANO GATE	04713 28480 01295 01295 01295	U78932459X 1820-0756 SN7474N SN74H10N SN7400N
U214 U215 U216 U217 U217	1820-0617 1820-0715 1820-0637 1820-0374 1820-0760		IC:TTL QUAO 2-INPT EXCL. NOR GATE IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL TRIPLE 3-INPT NOR GATE IC:TTL HS DUAL 4-INPT AND GATE IC:TTL 8-BIT RECEIVER INVERTING	04713 01295 18324 01295 28480	MC3022P SN74H106N N8875A SN74H21N 1820-0760
W1 W2 W3 W4 XY1	8159-0005 8159-0005 8159-0005 8159-0005 1200-0199	4	JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE SOCKET:CRYSTAL	28480 28480 28480 28480 91506	8159-0005 8159-0005 8159-0005 8159-0005 8000-AG9
Y1	J410-0453	1	CRYSTAL: QUARTZ	28480	0410-0453
		:			
		l			

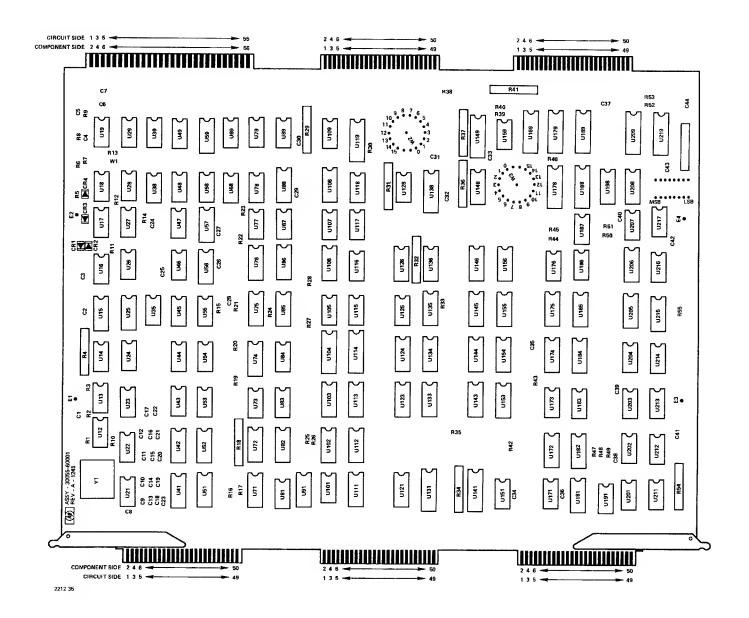


Figure 2-28. Synchronous Data Modem (201/203) IF PCA, Parts Location Diagram

Table 2-30. Terminal Data Interface PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30060-60001 0160-2055 0160-2055 0160-2055 0160-2055	L 55	TERMINAL OATA INTERFACE PCA C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	28480 56289 56289 56289 56289	30063-60001 C023F101F103Z522-C0H C023F101F103Z522-C0H C023F101F103Z522-C0H C023F101F103Z522-C0H
C5	0160-2055	13	C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C6	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C7	0180-0197		C:FXD ELECT 2.2 UF 10% 20VDCW	56289	1500225X9020AZ-DYS
C8	0160-2055		C:FXD ELECT 2.2 UF 980-20% 100VDCW	56289	C023F101F103ZS22-C0H
C9	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C10	0180-0197	16	C:FXD ELECT 2-2 UF 10% 20V0CW	56289	1500225X9020A2-0YS
C11	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102K522-CDH
C12	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102K522-CDH
C13	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102K522-CDH
C14	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102K522-CDH
C15	0160-3456		C:FXO CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-C0H
C16	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-C0H
C17	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-C0H
C18	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-CDH
C19	0160-2055		C:FXD CER 0-01 UF +80-20% 100VOCW	56289	C023F101F103KS22-C0H
C20 C21 C22 C23 C24	0160-2307 0140-0198 0160-2055 0160-2055 0180-0197	1	C:FXD MICA 47 PF 5% C:FXD MICA 200 PF 5% C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CEECT 2.2 UF 10% 20VDCW	28480 72136 56289 56289 56289	0160-2307 R0M15F201J3C C023F101F103ZS22-CDH C023F101F103ZS22-COH 1500225X902042-0YS
C25	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C26	0180-0197		C:FXD ELECT 2.2 UF 10% 20VDCW	56289	1500225X9020A2-DYS
C27	0180-0197		C:FXD ELECT 2.2 UF 10% 20VDCW	56289	1500225X9020A2-DYS
C28	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-CDH
C29	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-COH
C30	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-CDH
C31	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-COH
C32	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-CDH
C33	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-COH
C34	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-COH
C35	0160-3456		C:FXD CER 1000 PF 10% 250VDCW	56289	C067F251F102KS22-C0H
C36	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103KS22-C0H
C37	0180-0197		C:FXD ELECT 2.2 UF 10% 20VDCW	56289	1500225X9020A2-0YS
C38	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103KS22-C0H
C39	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103KS22-C0H
C40	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C41	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C42	0180-0197		C:FXD ELECT 2.2 UF 10% 20VDCW	56289	1500225X9020A2-DYS
C43	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C44	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-CDH
C45	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C46	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C47	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C48	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C49	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C50	0160-2055	2	C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C51	0160-2202		C:FXD M1CA 75 PF 5%	28480	0160-2202
C52	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C53	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-COH
C54	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-COH
C55 C56 C57 C58 C59	0160-2055 0160-2055 0160-2055 0160-2055 0160-2202		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289 28480	C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-C0H C023F101F103ZS22-CDH 0160-2202
C60	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C61	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-COH
C62	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C63	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C64	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C65	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C66	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C67	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C68	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C69	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C70	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56 289	C023F101F103ZS22-CDH
C71	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	562 89	C023F101F103ZS22-C0H
C72	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	562 89	C023F101F103ZS22-CDH
C73	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	562 89	C023F101F103ZS22-CDH
C74	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	562 89	C023F101F103ZS22-CDH

Table 2-30. Terminal Data Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C75	0180-0197	2	C:FXD ELECT 2-2 UF 10% 20VDCW	56289	1500225X9020A2-0YS
C76	0160-2055		C:FXD CER 0-01 UF +80-20% 100VDCW	56289	C023F101F103Z522-CDH
C77	0180-0197		C:FXD ELECT 2-2 UF 10% 20VDCW	56289	1500225X9020A2-DYS
C78	0140-0192		C:FXD MICA 68 PF 5%	28480	0140-0192
C79	0140-0192		C:FXD MICA 68 PF 5%	28480	0140-0192
C80	0160-2055	1	C:FXO CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0M
C81	0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0M
C82	0180-0374		C:FXO TANT. 10 UF 10% 20VDCW	56289	1500106X902082-0YS
C83	0180-0197		C:FXO ELECT 2.2 UF 10% 20VDCW	56289	150022SX9020A2-0YS
C84	0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0M
C85	0180-0197		C:FXO ELECT 2-2 UF 10% 20VDCW	56 289	1500225X9020A2-0YS
C86	0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW	56 289	C023F101F103ZS22-CDH
C87	0180-0197		C:FXD ELECT 2-2 UF 10% 20VDCW	56 289	1500225X5020A2-0YS
C88	0160-2055		C:FXD CER 0-01 UF +80-20% 100VOCW	56 289	C023F101F103ZS22-CDH
C89	0160-2055		C:FXD CER 0-01 UF +80-20% 100VOCW	56 289	C023F101F103ZS22-COH
C90 C91 CR1 CR2 CR3	0160-2055 0180-0197 1902-3070 1902-0579 1901-0159	1 2 2	C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO ELECT 2.2 UF 10% 20V0CW 0100E:8REAKOOWN 4.22V 5% 010DE 8REAKOOWN:5.11V 010DE:SILICON 0.75A 400P1V	56289 56289 04713 28480 04713	C023F101F103ZS22-CDH 1500225X9020A2-0YS SZ10939-74 1902-0579 SR1358-4
CR4 CR5 CR6 R1 R2	1902-0579 1901-0159 1902-3036 0698-3402 0698-3402	1 2	D10DE 8REAKODWN:5.11V D10DE:SILICON 0.75A 400PIV D10DE:BREAKDOWN 3.16V 5% R:FXO MET FLM 316 OHM 1% 1/2W R:FXO MET FLM 316 OHM 1% 1/2W	28480 04713 04713 28480 28480	1902-0579 SR1358-4 SZ10939-38 0698-3402 0698-3402
R3 R4 R5 R6 R7	3757~1 094 0698~3400 0757~1 094 0757~0278 0757~0280	16 2 2 3	R:FXO MET FLM 1.47K OHM 1% 1/8W R:FXD MET FLM 147 OHM 1% 1/2W R:FXO MET FLM 1.47K OHM 1% 1/8W R:FXO MET FLM 1.476K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-1094 0698-3400 0757-1094 0757-0278 0757-0280
R5 R9 R10 R11 R12	0757-0280 0757-0278 0757-0279 0698-3400 0757-1094	19	R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1.78K OMM 1% 1/8W R:FXO MET FLM 3.16K OHM 1% 1/8W R:FXO MET FLM 147 OHM 1% 1/2W R:FXO MET FLM 1.47K OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0280 0757-0278 0757-0279 0698-3400 0757-1094
R13 R14 R15 R16 R17	0757-1094 0757-1094 0757-0280 0757-1094 0757-1094		R:FXO MET FLM 1.47K OHM 1% 1/8W R:FXO MET FLM 1.47K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1.47K OHM 1% 1/8W R:FXO MET FLM 1.47K OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-1094 0757-1094 0757-0280 0757-1094 0757-1094
R16	0757-1094		R:FXO MET FLM 1-47K OHM 1% 1/8W	28480	0757-1094
R19	0757-1094		R:FXO MET FLM 1-47K OHM 1% 1/8W	26480	0757-1094
R20	0757-1094		R:FXO MET FLM 1-47K OHM 1% 1/8W	28480	0757-1094
R21	0757-1094		R:FXO MET FLM 1-47K OHM 1% 1/8W	28480	0757-1094
R22	0757-0279		R:FXO MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R23	0757-0279	3	R:FXO MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R24	1813-0020		RESISTOR NETWORK:MET FLM (7 RES)	28480	1810-0020
R25	0757-0279		R:FXO MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R26	0757-0279		R:FXO MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R28	0757-0279		R:FXO MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R29 R30 R31 R32 R33	0757-0279 0757-0279 0757-0279 0757-0279 0757-1094		R:FXD MET FLM 3-16K OHM 1% 1/8W R:FXO MET FLM 1-47K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0279 0757-0279 0757-0279 0757-0279 0757-0279 0757-1094
R34	0757-1094		R:FXO MET FLM 1.47K OHM 1% 1/8W	284 80	0757-1094
R35	0757-0279		R:FXO MET FLM 3.16K UHM 1% 1/8W	284 80	0757-0279
R36	0757-0279		R:FXO MET FLM 3.16K OHM 1% 1/8W	284 80	0757-0279
R37	0757-0279		R:FXO MET FLM 3.16K OHM 1% 1/8W	284 80	0757-0279
R37	0757-0279		R:FXO MET FLM 3.16K UHM 1% 1/8W	284 80	0757-0279
R38	0757-0279		R:FXO MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R39	0757-0279		R:FXD MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R40	0757-0279		R:FXD MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R41	0757-0279		R:FXD MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R42	0757-0279		R:FXO MET FLM 3-16K OHM 1% 1/8W	28480	0757-0279
R43	0757-1094	2	R:FXO MET FLM 1.47K DHM 1% 1/8W	284E0	0757-1094
R44	1810-0020		RESISTOR NETWORK:MET FLM (7 RES)	28480	1810-0020
R45	1810-0020		RESISTOR NETWORK:MET FLM (7 RES)	28480	1810-0020
R46	0757-1094		R:FXO MET FLM 1.47K OHM 1% 1/8W	28480	0757-1094
R47	0757-0180		R:FXO MET FLM 31.6 OHM 1% 1/8W	28480	0757-0180
R48	0757-0180	2 2	R:FXO MET FLM 31.6 OHM 1% 1/8W	28 4 80	0757-0180
R49	0698-3407		R:FXO MET FLM 1.96K OHM 1% 1/2W	28 4 80	0698-3407
R50	0757-0416		R:FXO MET FLM 511 OHM 1% 1/8W	28 4 80	0757-0416
R51	0757-0416		R:FXO MET FLM 511 OHM 1% 1/6W	28 4 80	0757-0416
R52	0698-3407		R:FXO MET FLM 1.96K OHM 1% 1/2W	28 4 80	0698-3407

Table 2-30. Terminal Data Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
R53 R54 U11 U12 U13	0757-0427 0757-1094 1820-0616 1820-0063 1820-0424	1 12 3 5	R:FXD MET FLM 1.5K OHM 1% I/BW R:FXO HET FLM 1.47K OHM 1% I/BW IC:TTL 4-BIT 2-INPT HULTIPLEXER IC:TTL OUAL 2W 2-INPT AND OR INV GATE IC:TTL HS MEX INVERTER	284B0 28480 07263 04713	0757-0427 0757-1094 U7B932259X SN7451N SN74H04N
U14 U15 U17 U18 U19	1820-0371 1820-0141 1820-0715 1820-0327 1820-0141	2 6 3 6	IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL QUAD 2-INPT NAND GATE IC:TTL QUAO 2-INPT AND GATE	01295 04713 01295 04713 04713	SN 74H10N MC 3001P SN 74H106N SN 74O1N MC 3001P
U21 U22 U23 U24 U25	1820-0077 1820-0376 1820-0294 1820-0294 1820-0140	3 5 2 4	IC:TTL DUAL O F/F IC:TTL HS DUAL 4-INPT NANC BUFFER IC:TTL B-BIT SER-IN PAR GUT SHIFT REG IC:TTL B-BIT SER-IN PAR DUT SHIFT REG IC:TTL OUAL 4-INPT AND BUFFER	01295 01295 12040 12040 04713	SN7474N SN74H40N S09935 S09935 MC 3026P
U27 U28 U29 U31 U32	1820-0424 1820-0370 1820-0370 1820-0509 1820-0509	B 4	IC:TTL HS HEX INVERTER IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL HS QUAD 2-INPT NAND GATE IC:OTL QUAD 1-2-2-2-INPT NAND LINE DR IC:OTL QUAD 1-2-2-2-INPT NAND LINE OR	04713 01295 01295 04713 04713	SN 74 HO4N SN 74 HOON SN 74 HOON MC 148BL MC 148BL
U33 U34 U35 U36 U37	1820-0301 1820-0301 1820-0261 1820-0127 1820-0328	15 1 1 3	IC:TTL QUAD BI-STABLE D-LATCH IC:TTL QUAD BI-STABLE D-LATCH IC:TTL MONO-STABLE HULTIVIBRATOR IC:TTL QUAD 2-INPT NAND GATE IC:TTL QUAO 2-INPT NOR GATE	01295 01295 01295 01295 07263 04713	SN7475N SN7475N SN74121N U6A900259X SN74022N
U38 U39 U41 U42 U43	1820-0140 1820-0301 1820-0509 1820-0509 1820-0301		IC:TTL DUAL 4-INPT AND BUFFER IC:TTL QUAD BI-STABLE D-LATCH IC:OTL QUAD 1-2-2-2-INPT NAND LINE OR IC:DTL QUAD 1-2-2-2-INPT NAND LINE OR IC:TTL QUAD BI-STABLE O-LATCH	04713 01295 04713 04713 01295	HC3026P SN7475N MC148BL MC148BL SN7475N
U44 U45 U46 U47 U48	1820-0301 1820-0076 1820-0715 1820-0370 1820-0301	1	IC:TTL QUAO BI-STABLE O-LATCH IC:TTL OUAL J-K F/F W/PRESET CLDCK IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL QUAD BI-STABLE O-LATCH	01295 01295 01295 01295 01295	SN7475N SN7476N SN74H106N SN74H00N SN7475N
U49 U51 U52 U53 U55	1820-0327 1820-0990 1820-0990 1820-0640 1820-0376	4 1	IC:TTL OUAD 2-INPT NAND GATE IC IC IC:TTL DATA SELECTOR/MULTIPLEXER IC:TTL HS DUAL 4-INPT NAND BUFFER	04713 28480 28480 01295 01295	SN7401N 1B20-0990 1B20-0990 SN74150N SN74H40N
U58 U57 U58 U59 U61	1820-0250 1820-0301 1820-0301 1820-0374 1820-0990	1	INTEGRATEO CIRCUIT:TTL 6 BIT COMP IC:TTL QUAO BI-STABLE D-LATCH IC:TTL QUAO BI-STABLE D-LATCH IC:TTL HS DUAL 4-INPT ANO GATE IC	28480 01295 01295 01295 28480	1B20-0250 SN7475N SN7475N SN74411N 1820-0990
U62 U63 U64 U65 U66	1820-0990 1820-0376 1820-0377 1820-0231 1820-0231	5	IC IC:TTL HS OUAL 4-INPT NANO BUFFER IC:TTL DUAL 0 F/F IC:TTL 4-BIT SYNC BINARY COUNTER IC:TTL 4-BIT SYNC BINARY COUNTER	28480 01295 01295 07263 07263	1B20-0990 SN74H40N SN7474N U68931659X U6B931659X
U67 U68 U69 U71 U72	1820-0327 1820-0327 1820-0141 1820-0141 1820-0063		IC:TTL QUAD 2-INPT NAND GATE IC:TTL QUAD 2-INPT NANO GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL DUAL 2W 2-INPT AND OR INV GATE	04713 04713 04713 04713 04713	SN7401N SN7401N MC3001P MC3001P SN7451N
U73 U74 U75 U76 U77	1820-0616 1820-0231 1820-0063 1820-0616 1820-0301		IC:TTL 4-8IT 2-INPT MULTIPLEXER IC:TTL 4-BIT SYNC BINARY COUNTER IC:TTL OUAL 2W 2-INPT AND OR INV GATE IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL OUAD BI-STABLE 0-LATCH	07263 07263 04713 07263 01295	U78932259X U68931659X SN7451N U78932259X SN7475N
U7B U79 UB1 UB2 U83	1820-0077 1820-0214 1820-0370 1820-0616 1820-0839	1 B	IC:TTL OUAL D F/F IC:TTL BCO TD DEC. DECOUER IC:TTL HS OUAO 2-INPT NAND GATE IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL QUAD 0-TYPE F/F	01295 01295 01295 01295 07263 01295	SN7474N SN7442N SN7440N U78932259X SN74175N
U84 UB5 U86 UB7 UBB	1820-0616 1820-0435 1820-0839 1820-0301 1820-0686	2	IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL B-BIT DDO/EVEN GEN./CHECKER IC:TTL QUAD D-TYPE F/F IC:TTL QUAD BI-STABLE D-LATCH IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE	07263 01295 01295 01295 01295	U7B932259X SN741B0N SN74175N SN7475N SN7475N SN74511N
U89 U91 U92 U93 U94	1820-0760 1820-0370 1820-0370 1820-0231 1820-0839	4	IC:TTL B-BIT RECEIVER INVERTING IC:TTL HS OUAO 2-INPT NAND GATE IC:TTL HS OUAD 2-INPT NAND GATE IC:TTL 4-BIT SYNC BINARY COUNTER IC:TTL OUAO 0-TYPE F/F	28480 01295 01295 07263 01295	1B20-0760 SN74H00N SN74H00N U6B931659X SN74175N

Table 2-30. Terminal Data Interface PCA, Replaceable Parts (Continued)

Reference Designation	IP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U95 U96 U97 U98 U99	1820-0616 1820-0616 1820-0301 1820-0844 1820-0755	1 2	IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL QUAO BI-STABLE D-LATCH IC:TTL DUAL 3-INPT PULSE SHAPER IC	07263 07263 01295 04713 28480	U78932259X U78932259X SN7475N MC426P 1820-D755
U101 U102 U1D3 U1D4 U105	1820-0328 1820-0424 1820-0328 1820-0616 1820-0367	3	IC:TTL QUAO 2-INPT NOR GATE IC:TTL HS HEX INVERTER IC:TTL QUAO 2-INPT NOR GATE IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL 4-BIT UP-OOWN SHIFT REGISTER	04713 04713 04713 07263 01295	SN7402N SN74H04N SN7402N U78932259X SN7495N
UID6 U1D7 U1G8 U1G9 U111	1820-0367 1820-0301 1820-0301 1820-0760 1820-0424		IC:TTL 4-BIT UP-DOWN SHIFT REGISTER IC:TTL QUAO 81-STA8LE O-LATCH IC:TTL QUAD BI-STA8LE D-LATCH IC:TTL 8-BIT RECEIVER INVERTING IC:TTL HS HEX INVERTER	01295 01295 01295 28480 D4713	SN7495N SN7475N SN7475N 1820-0760 SN74H04N
U112 U113 U114 U115 U116	1820-0141 1820-0733 1820-0231 1820-0839 1820-0839	2	IC:TTL QUAD 2-INPT ANO GATE IC:DIGITAL QUAO 256-BIT SHIFT REGISTER IC:TTL 4-BIT SYNC BINARY CDUNTER IC:TTL QUAD D-TYPE F/F IC:TTL QUAO 0-TYPE F/F	04713 28480 07263 01295 01295	MC3001P 1820-0733 U6B931659X SN74175N SN74175N
U117 U118 U121 U122 U123	1820-0140 1820-0424 1820-0371 1820-0141 1820-0616		IC:TTL OUAL 4—INPT AND BUFFER IC:TTL HS HEX INVERTER IC:TTL HS TRIPLE 3—INPT NAND GATE IC:TTL QUAO 2—INPT AND GATE IC:TTL 4—BIT 2—INPT MULTIPLEXER	04713 04713 01295 04713 D7263	MC3026P SN74H04N SN74H10N MC3001P U78932259X
U124 U125 U126 U127 U128	1820-D616 1820-0616 1820-0435 1820-0140 1820-D37D		1C:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL 8-BIT DDD/EVEN GEN./CHECKER IC:TTL DUAL 4-INPT ANO BUFFER IC:TTL HS QUAO 2-INPT NANO GATE	07263 07263 01295 04713 01295	U78932259X U78932259X SN74180N MC3026P SN74H00N
U129 U131 U132 U133 U134	1820-076D 1820-D37D 1820-0205 1820-0839 1820-0839	1	IC:TTL 8-81T RECEIVER INVERTING IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL QUAD 2-INPT OR GATE IC:TTL QUAD 0-TYPE F/F IC:TTL QUAD D-TYPE F/F	28480 01295 28480 01295 01295	1820-0760 SN74H00N 1820-0205 SN74175N SN74175N
U135 U136 U137 U138 U139	1820-0367 1820-0327 1820-0327 1820-0761 1820-0755	1	IC:TTL 4-BIT UP-DOWN SHIFT REGISTER IC:TTL QUAO 2-INPT NANO GATE IC:TTL QUAO 2-INPT NANO GATE IC:TTL OIGITAL IC	01295 04713 04713 28480 28480	SN7495N SN7401N SN7401N 1820-0761 1820-0755
U141 U142 U143 U144 U145	1820-0376 1820-0376 1820-0733 1820-0616 1820-0839		IC:TTL HS DUAL 4-INPT NAND BUFFER 1C:TTL HS DUAL 4-INPT NAND BUFFER IC:OIGITAL QUAD 256-BIT SHIFT REGISTER IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL QUAO 0-TYPE F/F	01295 01295 28480 07263 01295	SN74H40N SN74H40N 1820-0733 U78932259X SN74175N
U146 U147 U148 U149 U153	1820-03D1 1820-0301 1820-0706 1820-0760 1820-0832	2	IC:TTL QUAD 81-STABLE O-LATCH IC:TTL QUAO 81-STABLE O-LATCH IC:OIGITAL TTL 5-BIT COMPARATOR IC:TTL 8-BIT RECEIVER INVERIING IC:TTL TO MOS TRANSLATOR/CLDCK ORIVER	01295 01295 04713 28480 12040	SN7475N SN7475N U78932459X 1820-0760 NH0007C
U155 U159 U163 U169 W2	1820-0715 1820-0756 1820-0832 1820-0706 8159-0005	1	IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL 8-BIT ORIVER INVERTING IC:TTL TO MOS TRANSLATDR/CLOCK DRIVER IC:DIGITAL TTL 5-8IT COMPARATOR JUMPER WIRE	01295 28480 12040 04713 28480	SN74H106N 1820-0756 NH0007C U78932459X 8159-0005
W3 W4 W5 W6 W7	8159-D005 8159-00D5 8159-0005 8159-0DD5 8159-0005		JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	28480 28480 28480 28480 28480	8159-0005 8159-0005 8159-0005 8159-0005 8159-0005
W8 W10 W1 W1	8159-0005 8159-0005 8159-0005 120D-D199 0410-0459	1 1	JUMPER WIRE JUMPER WIRE JUMPER WIRE SOCKET:CRYSTAL CRYSTAL:QUARTZ	28480 28480 28480 91506 28480	8159-0005 8159-0005 8159-0005 8000-AG9 0410-0459

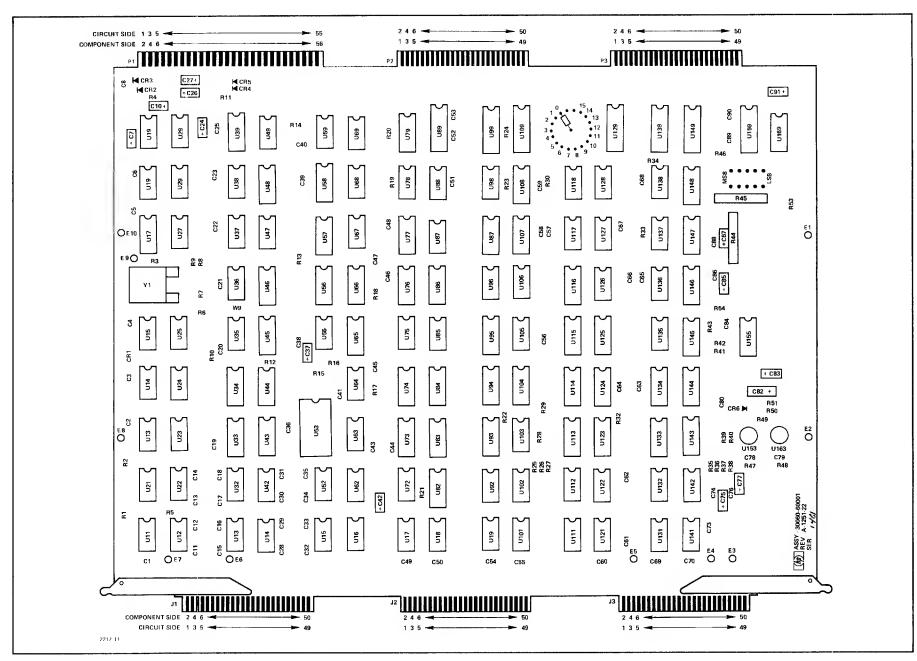


Figure 2-29. Terminal Data Interface PCA, Parts Location Diagram

Table 2-31. Terminal Control Interface PCA, Replaceable Parts

C. C. C. C. C. C. C. C.	Reference Designation	HP Part Number	Ωty	Description	Mfr Code	Mfr Part Number
C466 0160-2055 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 150022 C688 0180-0197 C4FKD CER 0.21 UF 10X 20VDCM 50289 150022 C71 0180-0197 C4FKD CER 0.21 UF +80-20X 100VDCW 50289 150022 C71 0180-0197 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 C02874 C72 0180-0197 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 150022 C72 C73 0180-0197 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 150022 C73 C74 O180-0197 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 150022 C75 C75 C180-0197 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 C02874 C75 C180-02055 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 C02874 C76 C180-02055 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 C02874 C77 C180-0197 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 C02874 C77 C180-02055 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 C02874 C77 C180-02052 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 C02874 C77 C180-02052 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 C02874 C77 C180-02052 C4FKD CER 0.01 UF +80-20X 100VDCW 50289 C02874 C78	C1			THRU THRU		30061-60001 R0M15F471J3C
C68				C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H 1500225X9020A2-0YS
C73 0180-0197 C_FXO EER O_10 UF +80-201 100VDCW 56.289 C_223F1 C_225F1 C_225	C69 C70	0160-2055 0180-0197		C:FXD ELECT 2.2 UF 10% 20VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 2.2 UF 10% 20VDCW	56289 56289 56289	150D225X9020A2-0YS C023F101F103ZS22-COH 150D225X90Z0A2-0YS C023F101F103ZS22-COH
C78	C73 C74 C75	0180-0197 0160-2055 0160-2055		C:FXO ELECT 2-2 UF 10% 20VDCW C:FXO CER 0-D1 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289	150D225X9020A2-DYS 150D225X9020A2-DYS C023F101F103ZS22-COH C023F101F103ZS22-COH C023F101F103ZS22-CDH
C63	C78 C79 C80	0160-2055 0160-2055 0160-2202	2	C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD M1CA 75 PF 5%	56289 56289 28480	150D225X9020A2-DYS C023F101F103ZS22-CDH C023F101F103ZS22-COH 0160-2202 0160-2202
C88	C83 C84 C85	0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS2Z-C0H 150D225X9020A2-DYS
C93	C88 C89 C90	0160-2055 0180-0197 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H 1500225X9020AZ-0YS C023F101F103ZS2Z-C0H C023F101F103ZS22-CDH
R1 0683-1025	C93 CR1 CR2	0160-2055 1902-0579 1901-0159		C:FXD CER 0.01 UF +80-20% 100VDCW DIDDE BREAKOGWN:5.11V D100E:SILICON 0.75A 400PIV	56289 28480 04713	C023F101F103ZS22-C0H C023F101F103ZS22-C0H 1902-0579 SR135 8-4 1902-0579
R6	R1 R2 R3	0683-1025 0683-1025 0698-3622		R:FXO COMP 1000 DHM 5% 1/4W R:FXO CDMP 1000 OHM 5% 1/4W R:FXD MET DX 120 OHM 5% 2W	01121 01121 28480	SR1358-4 C8 1025 C8 1025 0698-3622 0698-3622
R11	R6 R7 R8	0757-0279 0698-3155 0757-0279	2	R:FXO MET FLM 3.16K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 3.16K OHM 1% 1/8W	28480 28480 28480	1810-0125 0757-0279 0698-3155 0757-0279 0698-3155
U23	R11 R12 R13	0698-3155 1810-0125 1810-0125	4	R:FXD MET FLM 4.64K DHM 1% 1/8W RES1ST1VE NETWORK:7 X 4.7K DHM 5% 0.15W RESIST1VE NETWORK:7 X 4.7K DHM 5% 0.15W	28480 28480 28480	0698-3155 0698-3155 1810-0125 1810-0125 1820-0760
U33	U23 U24 U26	1820-0509 1820-0833 1820-0076	4 2	IC:OTL OUAO 1-2-2-INPT NANO LINE OR IC:OIGITAL TTL 8-81T AOORESSABLE LATCH IC:TTL DUAL J-K F/F W/PRESET CLOCK	04713 07263 01295	MCI488L MC1488L U78933459X SN7476N SN74H21N
U42 1820-0990 8 IC 28480 1820-0 U46 1820-0141 10:TTL QUAD 2-INPT AND GATE 04713 MC3001 U48 1820-0077 1 IC:TTL DUAL D F/F 01295 SN7474 U52 1820-0990 1 IC 28480 1820-0 U56 1820-0370 3 IC:TTL HS QUAD 2-INPT NANO GATE 01295 SN74H0	U33 U34 U35	1820-0509 1820-0833 1820-0141		IC:OTL QUAD 1-2-2-1NPT NANO LINE OR 1C:OIGITAL TTL 8-81T AODRESSABLE LATCH IC:TTL QUAO 2-1NPT ANO GATE	04713 07263 04713	MC1488L MC1488L U78933459X MC3001P SN74H106N
	U42 U46 U48	1820-0990 1820-0141 1820-0077		IC IC:TTL QUAD 2-INPT AND GATE IC:TTL DUAL D F/F	28480 04713 01295	MC3001P 1820-0990 MC3001P SN7474N 1820-0990
U62 1820-0990 IC 28480 1820-0 U63 1820-0640 2 1C:TTL DATA SELECTOR/MULTIPLEXER 01295 SN7415	บ58 บ62 บ63	1820-0214 1820-0990 1820-0640	1	IC:TTL 8CO TO OEC. OECOOER IC IC:TTL DATA SELECTOR/MULTIPLEXER	01295 28480	SN74H00N SN7442N 1820—0990 SN74150N
U65 1820-0839 3 IC:TTL OUAO O-TYPE F/F 01295 SN7417 U66 1820-0371 1 IC:TTL HS TRIPLE 3-INPT NANO GATE 01295 SN74H1 U6B 1820-0424 3 IC:TTL HS HEX INVERTER 04713 SN74H0	U66 U68	1820-0371 1820-0424	1	IC:TTL QUAO Q-TYPE F/F IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL HS HEX INVERTER	01295 01295	SN74175N SN74H1CN SN74H04N
U72 1820-0990 1C 28480 1820-0 U75 1820-0839 1C:TTL QUAO D-TYPE F/F 01295 SN7417	U75	1820-0839		IC:TTL QUAG D-TYPE F/F	28480 01295	1820-0590 SN74175N SN74H04N

Table 2-31. Terminal Control Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
UT8 U82 U83 U86 U88	1820-03T0 1820-0990 1820-0640 1820-03T0 1820-0686	1	IC:TTL HS QUAO 2-INPT NANO GATE IC IC:TTL DATA SELECTOR/HULTIPLEXER IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE	01295 28480 01295 01295 01295	SNT4HOON 1820—0990 SN74150N SNT4HOON SNT4S11N
U92 U96 U98 U102 U105	1820-0990 1820-0844 1820-0301 1820-0990 1820-00T6	1 1	IC IC:TTL OUAL 3-INPT PULSE SHAPER IC:TTL QUAO 81-STA8LE D-LATCH IC IC:TTL OUAL J-K F/F W/PRESET CLOCK	28480 04T13 01295 28480 01295	1820-0990 MC426P SNT4T5N 1820-0990 SNT4T6N
U108 U112 U114 U118 U122	1820-0760 1820-0990 1820-0205 1820-0756 1820-0509	1 3	IC:TTL B-81T RECEIVER INVERTING IC IC:TTL QUAO 2-INPT OR GATE IC:TTL 8-BIT DRIVER INVERTING IC:DTL QUAD 1-2-2-2-INPT NANO LINE OR	28480 28480 28480 28480 04713	1820-0760 1820-0990 1820-0205 1820-0756 MC1488L
U123 U124 U125 U128 U132	1820-0509 1820-0833 1820-0765 1820-0760 1820-0509	1	IC:OTL QUAO 1-2-2-2-INPT NANO LINE OR IC:OIGITAL TTL 8-8IT AOORESSABLE LATCH IC:TTL 4-8IT 8INARY COUNTER IC:TTL 8-8IT RECEIVER INVERTING IC:OTL QUAO 1-2-2-2-INPT NANO LINE DR	04713 07263 01295 28480 04713	MC1488L UT8933459X SNT419TN 1820-07660 MC1488L
U133 U134 U135 U144 U144	1820-0509 1820-0833 1820-0839 1820-0494 1820-0628	1	IC:OTL QUAD 1-2-2-2-INFT NAND LINE OR IC:OIGITAL TTL 8-81T AODRESSABLE LATCH IC:TTL QUAD D-TYPE F/F IC:TTL 64-81T RANDOM ACCESS MEMORY W IC:OIGITAL TTL 64-81T RANDOM MEMORY	04713 07263 01295 28480 01295	MC1488L U78933459X SNT41T5N 1820-0494 SN7489N
U145 U146 U148 U154 U156	1820-0424 1820-0706 1820-0760 1820-061T 1820-0706	2	IC:TTL HS HEX INVERTER IC:OIGITAL TTL 5-81T COMPARATOR IC:TTL 8-81T RECEIVER INVERTING IC:TTL QUAO 2-INPT EXCL. NOR GATE IC:OIGITAL TTL 5-81T COMPARATOR	04T13 04T13 28480 04713 04713	SN74H04N UT8932459X 1820-0T60 MC3022P U78932459X
U158 U164 U166 U168 W1	1820-0756 1820-0239 1820-0761 1820-0756 8159-0005	1 1 8	IC:TTL 8-8IT ORIVER INVERTING IC:TTL QUAO 2-INPT NOR GATE IC:TTL OLGITAL IC:TTL 8-8IT ORIVER INVERTING JUMPER WIRE	28480 28480 28480 28480 28480	1820-0756 1820-0239 1820-0761 1820-0756 8159-0005
W2 W3 W4 W5	8159-0005 8159-0005 8159-0005 8159-0005 8159-0005		JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	28480 28480 28480 28480 28480	8159-0005 8159-0005 8159-0005 8159-0005 8159-0005
WT W8	8159-0005 8159-0005		JUMPER WIRE JUMPER WIRE	28480 28480	8159-0005 8159-0005

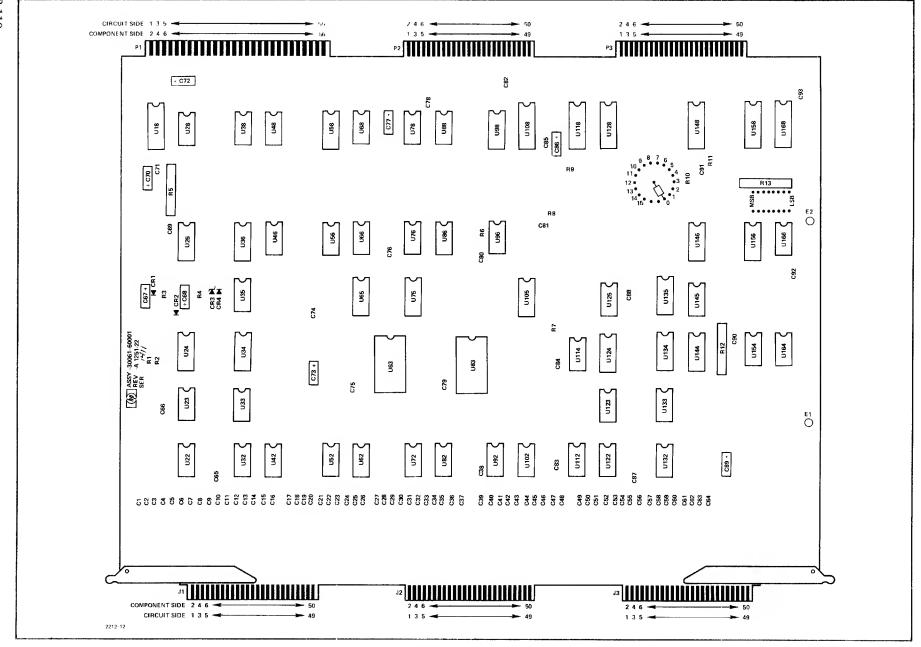


Figure 2-30. Terminal Control Interface PCA, Parts Location Diagram

Table 2-32. Disc File Read/Write PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	33232-60001 0160-2307 0160-2055 0180-0197 0160-2055	1 1 17 1	OISC FILE REAO WRITE CARO C=FXO MICA 47 PF 5% C=FXO CER 0.01 UF +80-20% 100VDCW C=FXO ELECT 2.2 UF 10% 20VDCW C=FXO CER 0.01 UF +80-20% 100VOCW	28480 28480 56289 56289 56289	30202-60001 0160-2307 C023F101F103ZS22-C0H 1500225X9020A2-0YS C023F101F103ZS22-CDH
C5 C6 C7 C8 C9	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C10 C11 C12 C13 C14	0160-2204 0160-2055 0160-2055 0150-0121 0160-2055	1	C:FXO MICA 100PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.1 UF +80-20% 50V0CW C:FXO CER 0.01 UF +80-20% 100V0CW	72136 56289 56289 56289 56289	ROM15F101J3C C023F101F103ZS22-COH C023F101F103ZS22-COH 5C508IS-CML C023F101F103ZS22-COH
C15 C16 C17 C18 C19	0150-0121 0160-2055 0150-0121 0160-2055 0150-0121		C:FXO CER 0.1 UF +80-20% 50VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.1 UF +80-20% 50VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.1 UF +80-20% 50VOCW	56289 56289 56289 56289 56289	5C508IS-CML C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-C0H 5C508IS-CML
C20 C21 C22 C23 C24	0150-0121 0160-2055 0150-0121 0160-2055 0160-2202	2	C:FXO CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD MICA 75 PF 5%	56289 56289 56289 56289 28480	5C508IS-CML C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-CDH 0160-2202
C25 C26 C27 C28 C29	0160-2202 0150-0121 0150-0121 0150-0121 0160-2055		C:FXD HICA 75 PF 5% C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 50VDCW	28 480 562 89 562 89 562 89 562 89	0160-2202 5C5081S-CML 5C5081S-CML 5C5081S-CML C023F101F103ZS22-COH
C30 C31 CR1 R1 R2	0160-2055 0160-2055 1901-0040 0757-0439 0757-0416	1 2 3	C:FXD CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 100V0CW 0100E:SILICON 50 MA 30 WV R:FXD MET FLM 6.81K DHM 1% 1/8W R:FXO MET FLM 511 DHM 1% 1/8W	56289 56289 07263 28480 28480	C023F101F103ZS22-C0H C023F101F103ZS22-CDH F0G1088 0757-0439 0757-0416
R3 R4 R5 R6 R7	0698-3438 0757-0439 0757-0458 1810-0030 1810-0125	1 1 7 8	R:FXO MET FLM 147 DHM 1% 1/8W R:FXO MET FLM 6.81K OHM 1% 1/8W R:FXD MET FLM 51.1K DHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W	28480 28480 28480 28480 28480	0698-3438 0757-0439 0757-0458 1810-0030 1810-0125
R8 R9 R10 R11 R12	0698-3441 1810-0030 0757-0280 0757-0401 1810-0125	1 1 1	R:FXD MET FLM 215 DHM 1% 1/8W NETWORK:7 RESISTDRS 1K OHM 5% 0-15W EA R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 100 DHM 1% 1/8W RESISTIVE NETWORK:7 X 4-7K DHM 5% 0-15W	28480 28480 28480 28480 28480	0698-3441 1810-0030 0757-0280 0757-0401 1810-0125
R13 R14 R15 R16 R17	1810-0030 1810-0125 1810-0125 0698-3155 1810-0030	8	NETWDRK:7 RESISTORS 1K DHM 5% 0.15W EA RESISTIVE NETWORK:7 X 4-7K DHM 5% 0.15W RESISTIVE NETWDRK:7 X 4-7K DHM 5% 0.15W R:FXD MET FLM 4.64K OHM 1% 1/8W NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA	28480 28480 28480 28480 28480	1810-0030 1810-0125 1810-0125 0698-3155 1810-0030
R18 R19 R20 R21 R22	0698-3132 0698-3155 0698-3155 1810-0030 0698-3155	1	R:FXD FLM 261 OHM 1% 1/8W R:FXD MET FLM 4.64K DHM 1% 1/8W R:FXD MET FLM 4.64K DHM 1% 1/8W NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA R:FXD MET FLM 4.64K DHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3132 0698-3155 0698-3155 1810-0030 0698-3155
R23 R24 R25 R26 R27	0698-2155 1810-0125 0757-0416 0698-3155 0757-0279	2	R:FXO MET FLM 4.64K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W R:FXD MET FLM 511 OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3155 1810-0125 0757-0416 0698-3155 0757-0279
R28 R29 R30 R31 R32	0757-0279 1810-0125 1810-0125 0698-3155 1810-0125		R:FXD MET FLM 3.16K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W R:FXD MET FLM 4.64K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K DHM 5% 0.15W	28480 28480 28480 28480 28480	0757-0279 1810-0125 1810-0125 0698-3155 1810-0125
R33 R42 U11 U12 U13	06 98-3155 0757-0416 1820-0495 1820-0715 1820-0715	1 6	R:FXO MET FLM 4-64K DHM 1% 1/8W R:FXO MET FLM 511 DHM 1% 1/8W IC:TTL 1 DF 16 DECDDER IC:TTL 01GITAL HI-SPEED J-K F/F IC:TTL DIGITAL HI-SPEED J-K F/F	28480 28480 01295 01295 01295	0698-3155 0757-0416 SN74154N SN74H106N SN74H106N
U14 U15 U16 U17 U18	1820-0371 1820-0054 1820-0511 1820-0371 1820-0370	6 2 2	IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL QUAD 2-INPT NAND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS QUAD 2-INPT NAND GATE	01295 01295 01295 01295 01295	SN74H1 ON SN740ON SN740BN SN74H1 ON SN74H0ON

Table 2-32. Disc File Read/Write PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U22 U23 U24 U25 U26	1820-0054 1820-00TT 1820-0424 1820-0141 1820-0902	4 6 8 1	IC:TTL QUAO 2-INPT NAND GATE IC:TTL OUAL O F/F IC:TTL HS HEX IMVERTER IC:TTL QUAO 2-INPT ANO GATE IC:TTL QUAO 2-INPT ANO ORIVER	01295 01295 04713 04713 01295	SN7400N SM7414N SN14H04N MC3001P SN7545CAN
U2T U28 U31 U32 U41	1820-0141 1820-0141 1820-0424 1820-0424 1820-0239	2	lC:TTL QUAO 2-INPT ANO GATE IC:TTL QUAO 2-INPT ANO GATE IC:TTL HS HEX INVERTER IC:TTL HS HEX INVERTER 1C:TTL HS HEX INVERTER 1C:TTL QUAO 2-INPT MOR GATE	04713 04713 04713 04713 28480	MC3001P MC3001P SN74H04N SN74H04N 1820-0239
U42 U43 U44 U45 U46	1820-00T7 1820-0511 1820-0371 1820-03T3 1820-03T1	1	IC:TTL OUAL O F/F IC:TTL QUAO 2-INPT ANO GATE IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL HS OUAL 4-INPT NANO GATE IC:TTL HS TRIPLE 3-INPT NANO GATE	01295 01295 01295 01295 01295	SM7474N SN7406N SNT4H10N SN74H20N SN74H10N
U47 U48 U52 U53 U54	1820-0715 1820-0077 1816-0230 1820-0512 1820-0512	1 4	IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL DUAL O F/F IC:ROM IC:TTL HS OUAL O F/F(35 MHZ MIN.) IC:TTL HS OUAL O F/F(35 MHZ MIN.)	01295 01295 28480 01295 01295	SN74H106N SN7474N 1816-0230 SM74H74N SN74H74N
U55 U56 U57 U58 U62	1820-0141 1820-0512 1820-0715 1820-0686 1816-0231	2 1	IC:TTL QUAO 2-IMPT AMO GATE IC:TTL HS OUAL O F/F(35 MHZ MIN.) IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE IC:ROM	04713 01295 01295 01295 28480	MC300IP SN74H74N SN74H106N SN74S1N 1816-0231
U65 U73 U74 U82 U85	1820-0231 1820-0715 1820-0512 1816-0232 1820-03T9	1 1 1	IC:TTL 4-BIT SYNC BINARY COUMTER IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL HS OUAL D F/F(35 MHZ MIN.) IC:ROM IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE	07263 01295 01295 28480 01295	U68931659X SN74H106N SN74H74N 1816-0232 SN74H52N
U86 U87 U8 8 U9 3 U94	1820-0239 1820-0370 1820-0424 1820-0715 1820-0370		IC:TTL QUAD 2-IMPT NOR GATE IC:TTL HS QUAD 2-INPT NANO GATE IC:TTL HS HEX INVERTER IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL HS QUAO 2-INPT NANO GATE	28480 01295 04713 01295 01295	1820-0239 SN74H00N SN74H04N SN74H106N SN74H00N
U102 U105 U106 U10T U108	1816-0233 1820-0205 1820-0141 1820-0370 1820-0761	1 3 2	IC:ROM IC:TTL QUAO 2-INPT OR GATE IC:TTL QUAO 2-INPT AND GATE IC:TTL B QUAO 2-INPT NANO GATE IC:TTL OIGITAL	28480 28480 04713 01295 28480	1816-0233 1820-0205 MC3001P SN74H00N 1820-0761
U112 U113 U114 U122 U123	1816-0234 1820-0205 1820-0141 1816-0235 1820-0205	1	IC:ROM IC:TTL QUAO 2-INPT OR GATE IC:TTL QUAO 2-INPT ANO GATE IC:ROM IC:TTL QUAO 2-INPT OR GATE	28480 28480 04713 28480 28480	1816-0234 1820-0205 MC3001P 1816-0235 1820-0205
U124 U126 U127 U128 U132	1820-0755 1820-0371 1820-0141 1820-0759 1816-0236	9 4 1	IC IC=TTL HS TRIPLE 3-INPT NANO GATE IC=TTL QUAO 2-INPT ANO GATE IC=TTL LOM-POWER 8-8IT RECEIVER IC=ROM	2848C 01295 04T13 28480 28480	1820-0755 SN74H10N MC3001P 1820-0759 1816-0236
U133 U134 U136 U13T U138	1820-0742 1820-0756 1820-0424 1820-03T0 1820-0759	9 5	IC:TTL OUAL 4-8IT LATCH IC:TTL 8-8IT ORIVER INVERTING IC:TTL HS HEX INVERTER IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL LOM-POWER 8-8IT RECEIVER	07263 28480 04713 01295 28480	U6N93C859X 1820-0756 SN74H04N SN74H06N 1820-0759
U142 U143 U144 U146 U147	1816-0237 1820-0756 1820-0742 1820-0755 1820-0755	1	IC:ROM IC:TTL 8-8IT ORIVER INVERTING IC:TTL OUAL 4-BIT LATCH IC IC	28480 28480 0T263 28480 28480	1816-023T 1820-0756 U6N930859X 1820-0755 1820-0755
U152 U153 U156 U157 U162	1816-0238 1820-0756 1820-0760 1820-0759 1816-0239	1 4 1	IC:ROM IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT RECEIVER INVERTING IC:TTL LOH-POWER 8-8IT RECEIVER IC:ROM	28480 28480 28480 28480 28480	1816-0238 1820-0756 1820-0760 1820-0759 1816-0239
U164 U173 U174 U175 U177	1820-0742 1820-0742 1820-0755 1820-0761 1820-0760		IC:TTL OUAL 4-8IT LATCH IC:TTL OUAL 4-8IT LATCH IC IC IC:TTL OIGITAL IC:TTL 8-8IT RECEIVER INVERTING	07263 07263 28480 28480 28480	U6N930859X U6N930859X 1820-0755 1820-0761 1820-0760
U1T8 U181 U184 U185 U187	1820-0759 1820-0742 1820-0755 1820-0370 1820-0755		IC:TTL LOM-POWER 8-8IT RECEIVER IC:TTL OUAL 4-8IT LATCH IC IC:TTL HS QUAO 2-INPT NANO GATE IC	28480 07263 28480 01295 28480	1820-0759 U6N930859X 1820-0755 SN74HOON 1820-0755

Table 2-32. Disc File Read/Write PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
U188 U191 U193 U194 U195	1820-0755 1810-0030 1810-0030 1820-0755 1820-0077		IC NETWORK:7 RESISTORS IK OHM 5% 0-15W EA NETWORK:7 RESISTORS IK OHM 5% 0-15W EA IC IC:TTL DUAL 0 F/F	28480 28480 28480 28480 01295	1820-0755 1810-0030 1810-0030 1820-0755 SN7474N
U196 U197 U198 U201 U202	1820-0141 1820-0760 1820-0760 1820-0175 1820-0175	3	IC:TTL QUAO 2-INPT ANO GATE IC:TTL 8-81T RECEIVER INVERTING IC:TTL 8-81T RECEIVER INVERTING IC:TTL HEX INVERTER, OPEN COLL. IC:TTL HEX INVERTER, OPEN COLL.	04713 28480 28480 01295 01295	MC3001P 1820-0760 1820-0760 SN7405N SN7405N
U203 U204 U205 U206 U207	1820-0175 1820-0755 1820-0686 1820-0424 1820-0491	1	IC:TTL HEX INVERTER, OPEN COLL. IC IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL HS HEX INVERTER IC:TTL 8CD/OEC. OECOOER/ORIVER	01295 28480 01295 04713 01295	SN7405N 1820-0755 SN74511N SN74HC4N SN74145N
U208 U211 U213 U214 U215	1820-0756 1820-0742 1820-0742 1820-0742 1820-0844	1	IC:TTL 8-81T ORIVER INVERTING IC:TTL OUAL 4-81T LATCH IC:TTL OUAL 4-81T LATCH IC:TTL OUAL 4-81T LATCH IC:TTL OUAL 3-INPT PULSE SHAPER	28480 07263 07263 07263 04713	1820–0756 U6N930859X U6N930859X U6N930859X MC426P
U216 U217 U218 U221 U223	1820-0371 1820-0756 1820-0706 1820-0726 1820-0726	2 2	IC:TTL HS TRIPLE 3-INPT NANG GATE IC:TTL 8-81T ORIVER INVERTING IC:OIGLTAL TTL 5-81T COMPARATOR IC:TTL 8-81T SHIFT REG. PAR IN/OUT IC:TTL 8-81T SHIFT REG. PAR IN/OUT	01295 28480 04713 01295 01295	SN74H10N 1820-0756 U78932459X SN74199 SN74199
U224 U225 U226 U228 W15	1820-0742 1820-0301 1820-0374 1820-0706 8159-0005	1 1	IC:TTL QUAL 4-BIT LATCH IC:TTL QUAD 81-STA8LE O-LATCH IC:TTL HS DUAL 4-INPT AND GATE IC:DIGITAL TTL 5-8IT COMPARATOR JUMPER WIRE	07263 01295 01295 04713 28480	U6N530859X SN7475N SN74H21N U78932459X 8159-0005

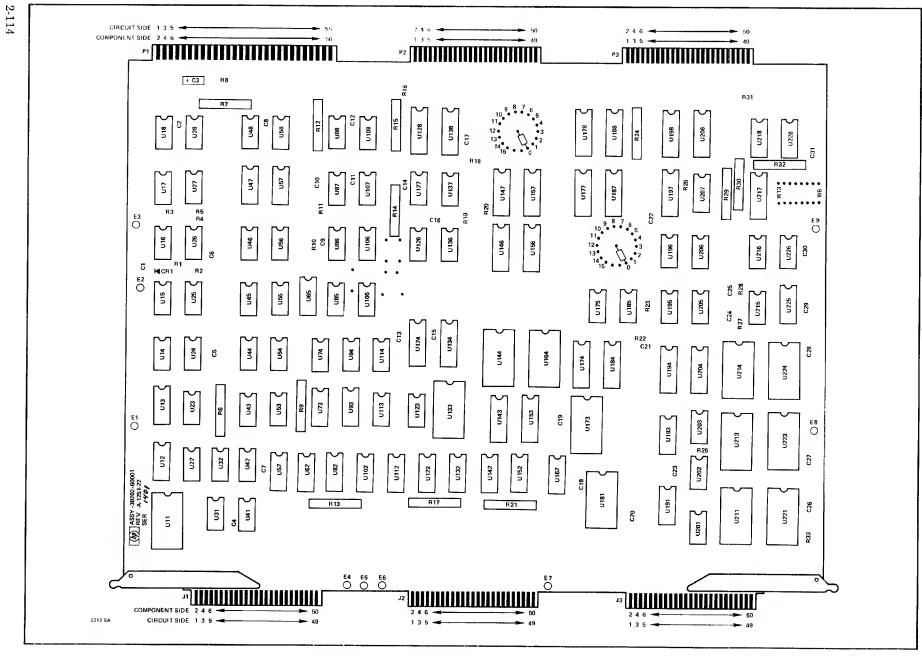


Figure 2-31. Disc File Read/Write PCA, Parts Location Diagram

Table 2-33. Disc File Bus PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C4 C5	30202-60002 0160-2055 0160-0134 0121-0046 0130-3303	46 2 5 3	OISC FILE BUS PCA C=FXO CER 0.01 UF +80-20% 100VDCW C=FXO MICA 220PF 5% 300VDCW C=VARI CER 9-35 PF	28480 56289 14655 28480	3 3202-60002 C023F101F1032S22-CDH R0M15F221J3C 0121-0046
C6 C7 C8 C9 C10	0180-0197 0180-0197 0180-0197 0160-2055 0160-2055	9	C:FXD ELECT 2.2 UF 10% 20VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	1500225X9020A2-0YS 1500225X9020A2-0YS 1500225X9020A2-0YS C023F101F103Z522-C0H C023F101F1032S22-C0H
C11 C12 C13 C14 C15	0130-5303 0130-3303 0121-0046 0121-0046 0160-2202	2	C:VARI CER 9-35 PF C:VARI CER 9-35 PF C:FXO MICA 75 PF 5%	284 80 284 8D 28 4 80	0121-0046 0121-0046 0160-2202
C16 C17 C18 C19 C20	0180-0197 0160-2055 0160-2202 0160-2055 0160-2306	2	C:FXO ELECT 2-2 UF 10% 20VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD HICA 75 PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD HICA 27 PF 5%	56289 56289 28480 56289 28480	1500225X9020A2-0YS C023F101F103ZS22-CDH 0160-2202 C023F101F103ZS22-CDH 0160-2306
C21 C22 C23 C24 C25	0160-0938 0160-3045 0121-0046 0160-2055 0140-0198	1 2 2	C:FXO MICA 1000 PF 5% C:FXO MICA 53.8 PF 1% 1DOVDCW C:VARI CER 9-35 PF C:FXO CER 0-01 UF +80-20% 100VOCW C:FXO MICA 200 PF 5%	72136 28480 28480 56289 72136	RDM15E102J1C 0160-3045 0121-0046 C023F101F1032S22-CDH ROM15F201J3C
C26 C27 C28 C29 C30	0180-0197 0160-2306 0160-2055 0160-3045 0160-2055		C:FXO ELECT 2.2 UF 10% 20VDCM C:FXO MICA 27 PF 5% C:FXO CER 0.01 UF +80-20% 100VDCM C:FXD MICA 53.8 PF 1% 1D0VDCM C:FXO CER 0.01 UF +80-20% 100VDCM	56289 28480 56289 28480 56289	1500225X9020A2-0YS 0160-2306 C023F101F1032S22-CDH D160-3045 C023F101F103ZS22-COH
C31 C32 C33 C34 C35	0121-0046 0150-0121 0140-0198 0160-2453 0160-2207	7 1 1	C:VARI CER 9-35 PF C:FXO CER 0.1 UF +80-20% 50VDCW C:FXO MICA 2DD PF 5% C:FXO MY 0.22 UF 10% 80VOCW C:FXO MICA 3DO PF 5%	28480 56289 72136 56289 28480	0121-0046 5C508IS-CML ROM15F201J3C 192P2249R8-PTS 0160-22D7
C36 C37 C38 C39 C41	0160-2201 0160-0134 0160-2197 0180-0197 0180-0197	1 1	C:FXD MICA 51 PF 5% C:FXD MICA 220PF 5% 300V0CW C:FXD MICA 1D PF 5% C:FXD ELECT 2.2 UF 1D% 2DVDCW C:FXD ELECT 2.2 UF 10% 2DVDCW	72136 14655 72136 56289 56289	ROM15E510J1C RDM15F221J3C ROM15C100J3C 1500225X9020A2-0YS 1500225X9020A2-0YS
C42 C43 C44 C45 C46	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-2D% 100VDCW C:FXD CER 0.01 UF +80-2D% 100VOCW	56289 56289 56289 56289 56289	C023F101F1032S22-CDH C023F101F1D32S22-CDH C023F101F1D32S22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH
C47 C48 C49 C50 C51	0160-2055 0160-2055 0160-2055 0180-0197 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +8D-20% 100VDCW C:FXD ELECT 2.2 UF 10% 20VDCW C:FXD CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-C0H C023F101F103ZS22-C0H 1500225X9020A2-0YS C023F101F103ZS22-CDH
C52 C53 C54 C55 C56	0160-2055 0140-0205 0160-2055 0150-0121 0160-2055	1	C:FXD CER 0.D1 UF +80-20% 1D0VDCW C:FXD MICA 62 PF 5% 300VCCW C:FXD CER 0.D1 UF +80-20% 1D0VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.D1 UF +80-20% 1D0VDCW	56289 00853 56289 56289 56289	C023F101F1D32S22-CDH RDM15E620J3C CD23F101F103ZS22-COH 5C50B1S-CML C023F1D1F103ZS22-CDH
C57 C58 C59 C60 C61	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.D1 UF +80-2D% 10DVDCW C:FXD CER D.01 UF +80-2D% 1DDVDCW C:FXD CER D.01 UF +80-2D% 1DDVDCW C:FXD CER 0.D1 UF +80-2D% 1DDVDCW C:FXD CER 0.D1 UF +8D-2D% 1DDVDCW	56289 56289 56289 56289 56289	C023F101F1032S22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-COH
C62 C63 C64 C65 C66	0180-0197 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO ELECT 2.2 UF 10% 2DVDCW C:FXO CER 0.01 UF +8D-20% 1DDVDCW C:FXO CER D.D1 UF +8D-20% 1DOVDCW C:FXO CER 0.01 UF +8D-20% 1DOVDCW C:FXD CER 0.01 UF +8D-20% 1DOVDCW	56289 56289 56289 56289 56289	1500225X9020A2-0YS C023F101F103ZS22-CDH C023F1D1F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C67 C68 C69 C70 C71	0160-2055 0150-0121 0160-2055 0160-2055 0160-2055		C:FXD CER D-D1 UF +8D-20% 1DOVDCW C:FXO CER 0-1 UF +8D-20% 50VDCW C:FXD CER 0-01 UF +8D-20% 1DOVDCW C:FXO CER 0-01 UF +8D-20% 1DOVDCW C:FXO CER 0-01 UF +8D-20% 1DOVDCW	56289 56289 56289 56289 56289	C023F101F1032S22-C0H 5C5081S-CML C023F101F103ZS22-C0H CD23F101F103ZS22-C0H C023F101F103ZS22-C0H
C 72 C 73 C 74 C 75 C 76	0140-0196 0160-2055 0160-2055 0160-2055 0160-2055	7	C=FXD MICA 15D PF 5% C=FXD CER 0.01 UF +80-2D% 100VDCW C=FXO CER 0.01 UF +80-2D% 100VDCW C=FXO CER 0.01 UF +80-2D% 10DVDCW C=FXD CER 0.01 UF +80-2D% 1DDVDCW	72136 56289 56289 56289 56289	ROM15F151J3C CO23F101F103ZS22-CDH CO23F101F103ZS22-COH CD23F101F103ZS22-CDH CD23F101F103ZS22-CDH

Table 2-33. Disc File Bus PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C77 C78 C79 C80 C81	0150-0121 0150-0121 0140-0196 0140-0196		C:FXO CER 0.1 UF +80-20% 50VOCW C:FXD CER 0.1 UF +80-20% 50VOCW C:FXO MICA 150 PF 5% C:FXO MICA 150 PF 5% C:FXO MICA 150 PF 5%	56289 56289 72136 72136 72136	5C508IS-CML 5C508IS-CML ROMI5F151J3C ROMI5F151J3C ROMI5F151J3C
C82 C83 C84 C85 C86	0160-2055 0160-2055 0160-2055 0150-0121 0140-0196		C:FXO CER 0.01 UF +80-20% 100VDCM C:FXO CER 0.01 UF +80-20% 100VDCM C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VOCM C:FXO M1CA 150 PF 5%	56289 56289 56289 56289 72136	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 5C50BIS-CML R0M15F151J3C
C87 C88 C89 C90 C91	0140-0196 0160-2055 0160-2055 0140-0196 0160-2055		C:FXD MICA 150 PF 5% C:FXO CER 0-01 UF +80-20% 100VOCH C:FXO CER 0-01 UF +80-20% 100VOCH C:FXO MICA 150 PF 5% C:FXO CER 0-01 UF +80-20% 100VOCH	72136 56289 56289 72136 56289	ROM15F151J3C C023F101F103ZS22-C0H C023F101F103ZS22-C0H ROM15F151J3C C023F101F103ZS22-C0H
C92 C93 C94 C95 CR1	0160-2055 0160-2055 0160-2055 0150-0121 1902-3024	1	C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VOCW 0:FXD CER 0.1 UF +80-20% 50VOCW	56289 56289 56289 56289 04713	C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-C0H 5C5081S-CML SZ10939-26
CR2 CR3 CR4 CR5 CR6	1901-0033 1902-3119 1901-0040 1902-3049 1902-3119	1 2 2 1	DIDOE:SILICON 100MA 180MV 0IODE:BREAKOOWN 6-49V 2% 0IODE:SILICON 50 MA 30 WV 0IODE:SILICON 3.48V 2% 400MH DIUOE:BREAKOOWN 6-49V 2%	07263 04713 07263 04713 04713	FD3369 \$210939-129 FDG1088 \$210939-51 \$210939-129
CR7 CR38 O1 02 03	1901-0040 1990-0310 1853-0075 1853-0075 1853-0018	1 2 3	O100E:S1LICDN 50 MA 30 MV OIDOE:VISIBLE LIGHT EMITTER TSTR:S1 PNP TSTR:S1 PNP TSTR:S1 PNP(SELECTEO FROM 2N4260)	07263 28480 28480 28480 28480	F0G1088 1990-0310 1853-0075 1853-0075 1853-0018
C4 O5 C6 O7 O8	1853-0018 1853-0018 1854-0094 1854-0071 1854-0094	9 1	TSTR:S1 PNP(SELECTEO FROM 2N4260) TSTR:S1 PNP(SELECTEO FROM 2N4260) TSTR:S1 NPN TSTR:S1 NPN(SELECTEO FROM 2N3704) TSTR:S1 NPN(SELECTEO FROM 2N3704)	28480 28480 80131 28480 80131	1653-0018 1853-0018 2N3646 1854-0071 2N3646
09 010 011 012 013	1854-0094 1854-0094 1854-0094 1854-0094 1854-0094		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	80131 80131 80131 80131 80131	2N3646 2N3646 2N3646 2N3646 2N3646 2N3646
014 015 R1 R2 R3	1854-0094 1854-0094 0757-0416 0757-0280 0698-3441	5 18 11	TSTR:SI NPN TSTR:SI NPN R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W	80131 80131 28480 28460 28460	2N3646 2N3646 0757-0416 0757-0280 0698-3441
R4 R5 R6 R7 R8	0757-0280 0757-0438 0757-0438 0757-0280 0698-0085	6	R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 5-11K CHM 1% 1/8W R:FXO MET FLM 5-11K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 2-61K CHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0438 0757-0438 0757-0280 0698-0085
R9 R10 R11 R12 R13	0698-0085 0757-0438 0757-0438 0698-3395 2100-1773	2 1	R:FXO MET FLM 2.61K OHM 1% 1/8W R:FXO MET FLM 5.11K OHM 1% 1/8W R:FXD MET FLM 5.11K OHM 1% 1/8W R:FXO MET FLM 34.8 OHM 1% 1/2W R:VAR WW 1K OHM 5% TYPE H 1W	28480 28480 28480 28480 28480	0698-0085 0757-0438 0757-0438 0698-3395 2100-1773
R14 R15 R16 R17 R18	0757-0280 0757-0280 0696-3155 0698-3155 0698-3153	5 7	R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 4-64K CHM 1% 1/8W R:FXO MET FLM 4-64K CHM 1% 1/8W R:FXO MET FLM 3-83K CHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0280 0698-3155 0698-3155 0698-3153
R19 R20 R21 R22 R23	0698-3153 0757-0814 0698-3395 0698-3446 0757-0280	1 8	R:FXO MET FLM 3.83K OHM 1% 1/6W R:FXO MET FLM 511 OHM 1% 1/2W R:FXO MET FLM 34.8 OHM 1% 1/2W R:FXO MET FLM 383 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3153 0757-0814 0698-3395 0698-3446 0757-0280
R24 R25 R26 R27 R28	0698-3438 0698-3442 0698-3156 0698-3155 0698-0083	25 2 1	R:FXO MET FLM 147 DHM 1% 1/8W R:FXO MET FLM 237 DHM 1% 1/8W R:FXD MET FLM 14.7K DHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 1.96K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3438 0698-3442 0698-3156 0698-3155 0698-0083
R29 R30 R31 R32 R33	0757-0280 0698-3155 0757-0442 0757-0442 0757-0441	2 2	R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 8.25K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0698-3155 0757-0442 0757-0442 0757-0441

Table 2-33. Disc File Bus PCA, Replaceable Parts (Continued)

Reference Designation HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R34 0757-0441		R:FXD MET FLM 8.25K OHM 1% 1/8W	28480	0757-0441
R35 0698-3153		R:FXD MET FLM 3.83K OHM 1% 1/8W	28480	0696-3153
R36 0698-3442		R:FXD MET FLM 237 DHM 1% 1/8W	28480	0698-3442
R37 0698-3153		R:FXD MET FLM 3.83K OHM 1% 1/8W	28480	0698-3153
R38 0757-0280		R:FXD MET FLM 1K CHM 1% 1/8W	28480	0757-0280
R39 0757-0416		R:FXO MET FLM 511 DHM 1% 1/8W	28480	0757-0416
R40 0757-0416		R:FXD ME7 FLM 511 DHM 1% 1/8W	28480	0757-0416
R41 0698-3153		R:FXD ME7 FLM 3.83K DHM 1% 1/8W	28480	0698-3153
R41 0698-3153		R:FXO ME7 FLM 3.83K DHM 1% 1/8W	28480	0698-3153
R42 0757-0438		R:FXD MET FLM 5.11K DHM 1% 1/8W	28480	0757-0438
R43 0757-0440 R44 0698-3438 R45 0698-3150 R46 0757-0416 R47 0757-0280	1 3	R:FXD ME7 FLM 7.50K DHM 1% 1/8W R:FXD MET FLM 147 DHM 1% 1/8W R:FXD MET FLM 2.37K DHM 1% 1/8W R:FXD MET FLM 511 OHM 1% 1/8W R:FXD ME7 FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0440 0698-3438 0698-3150 0757-0416 0757-0280
R48 06 98 -4 03 7 R49 0757 - 0280 R50 0757 - 0438 R51 06 98 - 3438 R52 0757 - 0280	1	R:FXD MEI FLM 46.4 DHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD ME7 FLM 5.11K CHM 1% 1/8W R:FXD MET FLM 147 OHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-4037 0757-0280 0757-0438 0698-3438
R53 0698-3150 R54 0698-3153 R55 0698-3150 R56 0698-3398 R57 0698-3398	2	R:FXD MET FLM 2.37K OHM 1% 1/8W R:FXD MET FLM 3.83K OHM 1% 1/8W R:FXD MET FLM 2.37K OHM 1% 1/8W R:FXD MET FLM 46.4 OHM 1% 1/2W R:FXD MET FLM 46.4 OHM 1% 1/2W	28480 28480 28480 28480 28480 28480	0698-3150 0698-3153 0698-3150 0698-3398 0698-3398
R58 0757-0416	8	R:FXD MET FLM 511 DHM 1% 1/8W	28480	0757-0416
R59 0698-3441		R:FXD ME7 FLM 215 DHM 1% 1/8W	28480	0698-3441
R60 0698-3436		R:FXD ME7 FLM 147 DHM 1% 1/8W	28480	0698-3438
R61 0698-3441		R:FXD MET FLM 215 DHM 1% 1/8W	28480	0698-3441
R62 0698-3445		R:FXD MET FLM 348 DHM 1% 1/8W	28480	0698-3445
R63 0757-0420 R64 0698-3438 R65 0757-0405 R66 0698-3132 R67 0698-3438	8 35 35	R:FXD MET FLM 750 OHM 1% 1/8W R:FXO ME7 FLM 147 OHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W R:FXD FLM 261 OHM 1% 1/8W R:FXD MET FLM 147 OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0420 0698-3438 0757-0405 0698-3132 0698-3438
R68 06 98-3441		R:FXO MET FLM 215 OHM 1% 1/8W	28480	0698-3441
R69 06 98-3445		R:FXD MET FLM 348 OHM 1% 1/8W	28480	0698-3445
R70 0757-0420		R:FXO MET FLM 750 OHM 1% 1/8W	28480	0757-0420
R71 06 98-3438		R:FXXD MET FLM 147 OHM 1% 1/8W	28480	0698-3438
R72 0757-0405		R:FXD MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R73 0698-3132		R:FXD FLM 261 OHM 1% 1/8W	28480	0698-3132
R74 0698-3438		R:FXD MET FLM 147 OHM 1% 1/8W	28480	0698-3438
R75 0698-3441		R:FXD MET FLM 215 OHM 1% 1/8W	28480	0698-3441
R76 0698-3445		R:FXD MET FLM 348 DHM 1% 1/8W	28480	0698-3445
R77 0757-0420		R:FXD MET FLM 750 OHM 1% 1/8W	28480	0757-0420
R78 0698-3438		R:FXD MET FLM 147 OHM 1% 1/8W	28480	0698-3438
R79 0757-0405		R:FXD MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R80 0698-3132		R:FXD FLM 261 OHM 1% 1/8W	28480	0698-3132
R81 0698-3438		R:FXD MET FLM 147 OHM 1% 1/8W	28480	0698-3438
R82 0698-3441		R:FXD MET FLM 215 OHM 1% 1/8W	28480	0698-3441
R83 0698-3445 R84 0757-0420 R85 0698-3438 R86 0757-0405 R87 0698-3132		R:FXD MET FLM 348 DHM 1% 1/8W R:FXD MET FLM 750 DHM 1% 1/8W R:FXD MET FLM 147 OHM 1% 1/8W R:FXO MET FLM 162 OHM 1% 1/8W R:FXD FLM 261 OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-3445 0757-0420 0698-3438 0757-0405 0698-3132
R88 06 98-3438		R:FXD MET FLM 147 OHM 1% 1/8W	28480	0698-3438
R89 06 98-3441		R:FXD MET FLM 215 OHM 1% 1/8W	28480	0698-3441
R90 06 98-3445		R:FXD MET FLM 348 OHM 1% 1/8W	28480	0698-3445
R91 0757-0420		R:FXO MET FLM 750 OHM 1% 1/8W	28480	0757-0420
R92 06 98-3438		R:FXD MET FLM 147 OHM 1% 1/8W	28480	0698-3438
R93 0757-0405		R:FXD MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R94 0698-3132		R:FXD FLM 261 GHM 1% 1/8W	26480	0698-3132
R95 0698-3438		R:FXD MET FLM 147 OHM 1% 1/8W	28480	0698-3438
R96 0698-3441		R:FXD MET FLM 215 OHM 1% 1/8W	28480	0698-3441
R97 0698-3445		R:FXD MET FLM 348 OHM 1% 1/8W	28480	0698-3445
R98 0757-0420 R99 0698-3438 R100 0757-0405 R101 0698-3132 R102 0698-3438		R:FXD MET FLM 750 OHM 1% 1/8W R:FXD MET FLM 147 OHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W R:FXD FLM 261 OHM 1% 1/8W R:FXD MET FLM 147 OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0420 0698-3438 0757-0405 0698-3132 0698-3438
R103 0698-3441 R104 0698-3445 R105 0757-0420 R106 0698-3438 R107 0757-0405		R:FXD MET FLM 215 OHM 1% 1/8W R:FXD MET FLM 348 DHM 1% 1/8W R:FXD MET FLM 750 OHM 1% 1/8W R:FXD MET FLM 147 DHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W	28 4 80 28 4 80 28 4 80 28 4 80 28 4 80 28 4 80	0698-3441 0698-3445 0757-0420 0698-3438 0757-0405

Table 2-33. Disc File Bus PCA Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R108	0698-3132		R:FXO FLM 261 OHM 1% 1/8W	28480	0698-3132
R109	0698-3438		R:FXO MET FLM 147 OHM 1% 1/8W	28480	0698-3438
R110	0698-3441		R:FXO MET FLM 215 OHM 1% 1/8W	28480	0698-3441
R111	0698-3445		R:FXO MET FLM 348 OHM 1% 1/8W	28480	0698-3445
R112	0757-0420		R:FXD MET FLM 750 OHM 1% 1/8W	28480	0757-0420
R113	0698-3438		R:FXO MET FLM 147 OHM 12 1/8W	28 4 60	0698-3438
R114	0757-0405		R:FXO MET FLM 162 OMM 13 1/8W	28 4 80	0757-0405
R115	0698-3132		R:FXO FLM 261 OHM 13 1/8W	28 4 80	0698-3132
R116	0698-3438		R:FXO MET FLM 147 OHM 13 1/8W	28 4 60	0698-3438
R117	0698-3438		R:FXO MET FLM 147 OHM 12 1/8W	28 4 80	0698-3438
R118	0698-3441		R:FXO MET FLM 215 OHM 1% 1/8W	28 4 80	0698-3441
R119	0698-3438		R:FXD MET FLM 147 OHM 1% 1/8W	28 4 80	0698-3438
R120	0698-3438		R:FXD MET FLM 147 OHM 1% 1/8W	28 4 80	0698-3438
R121	0698-3438		R:FXO MET FLM 147 OHM 1% 1/8W	28 4 80	0698-3438
R123	0698-3438		R:FXO MET FLM 147 OHM 1% 1/8W	28 4 80	0698-3438
R124	0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W	28480	0757-0280
R125	0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W	28480	0757-0280
R126	0698-3446		R:FXO MET FLM 383 OMM 1% 1/8W	28480	0698-3446
R127	0757-0280		R:FXO MET FLM 1K CHM 1% 1/8W	28480	0757-0280
R128	0698-3155		R:FXO MET FLM 4.64K CHM 1% 1/8W	28480	0698-3155
R129	0698-3446	3	R:FXO MET FLM 383 OMM 1% 1/8W	28480	0698-3446
R130	1810-0030		NETWORK:7 RESISTORS 1K OMM 5% 0-15W EA	28480	1810-0030
R131	1810-0030		NETWORK:7 RESISTORS 1K OMM 5% 0-15W EA	28480	1810-0030
R132	1810-0030		NETWORK:7 RESISTORS 1K OMM 5% 0-15W EA	28480	1810-0030
R133	0698-3446		R:FXO MET FLM 383 OMM 1% 1/8W	28480	0698-3446
R134	0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W	28 4 80	0757-0280
R135	0698-3446		R:FXO MET FLM 383 OHM 1% 1/8W	28 4 80	0698-3446
R136	0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W	28 4 80	0757-0280
R137	0698-3446		R:FXO MET FLM 383 OHM 1% 1/8W	28 4 80	0698-3446
R138	0698-3446		R:FXO MET FLM 383 OHM 1% 1/8W	28 4 80	0698-3446
R135 R140 R141 R142 R143	06 98-3446 0757-0280 06 98-3132 06 98-3132 06 98-3132		R:FXO MET FLM 383 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W K:FXO FLM 261 OHM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3446 0757-0280 0698-3132 0698-3132 0698-3132
R144 R145 R146 R147 R146	06 98-3132 06 98-3132 06 98-3132 06 98-3132 06 98-3132		R:FXO FLM 261 OHM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W	28480 28480 28480 28480 28480 26480	0698-3132 0698-3132 0698-3132 0698-3132 0698-3132
R145	06 98-3132		R:FXO FLM 261 OHM 1% 1/8W	28480	06 98-3132
R150	06 98-3132		R:FXD FLM 261 OHM 1% 1/8W	28480	06 98-3132
R151	06 98-3132		R:FXO FLM 261 OHM 1% 1/8W	28480	06 98-3132
R152	06 98-3132		R:FXD FLM 261 OHM 1% 1/8W	28480	06 98-3132
R153	06 98-3132		R:FXD FLM 261 OHM 1% 1/8W	28480	06 98-3132
R154	06 98-3132		R:FXO FLM 261 UHM 1% 1/8W	28480	0698-3132
R155	06 98-3132		R:FXO FLM 261 UHM 1% 1/8W	28480	0698-3132
R156	06 98-3132		R:FXO FLM 261 UHM 1% 1/8W	26480	0698-3132
R157	06 98-3132		R:FXD FLM 261 UHM 1% 1/8W	28480	0698-3132
R158	06 98-3132		R:FXD FLM 261 UHM 1% 1/8W	28480	0698-3132
R155	0698-3132		R:FXO FLM 261 OHM 1% 1/8W	28480	0698-3132
R160	0698-3132		R:FXO FLM 261 OHM 1% 1/8W	28480	0698-3132
R161	0698-3132		R:FXO FLM 261 OHM 1% 1/8W	28480	0698-3132
R162	0698-3132		R:FXO FLM 261 OHM 1% 1/8W	28480	0698-3132
R163	0698-3132		R:FXO FLM 261 OHM 1% 1/8W	28480	0698-3132
R164 R165 R166 R167 R168	06 98-3132 06 98-3132 06 98-3132 06 98-3132 0757-0405		R:FXO FLM 261 OHM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W	28480 28480 28480 28480 28480	06 98-3132 06 98-3132 06 98-3132 06 98-3132 0757-0405
R169	0757-0405		R:FXD MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R170	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R171	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R172	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R173	0757-0405		R:FXD MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R174	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R175	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R176	0757-0405		R:FXU MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R177	0757-0405		R:FXU MET FLM 162 OHM 1% 1/8W	26480	0757-0405
R178	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R179	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R180	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	28480	0757-0405
R181	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	26480	0757-0405
R182	0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W	28480	0757-0405

Table 2-33. Disc File Bus PCA. Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R184 R185 R186 R187 R188	0757-0405 0757-0405 0757-0405 0757-0405 0757-0405		R:FXO MET FLM 162 OHM 1% 1/8W R:FXO MET FLM 162 OHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0405 0757-0405 0757-0405 0757-0405 0757-0405
R189 R190 R191 R192 R193	0757-0405 0757-0405 0757-0405 0757-0405 0757-0405		R:FXD MET FLM 162 OHM 1% 1/8W R:FXO MET FLM 162 OHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W R:FXD MET FLM 162 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0405 0757-0405 0757-0405 0757-0405 0757-0405
R194 R195 U11 U12 U13	0757-0405 0757-0280 1820-0424 1820-0368 1820-0077	2 1 3	R:FXO MET FLM 162 OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W IC:TTL HS HEX 1NVERTER IC:TTL 5-BIT SHIFT REGISTER IC:TTL OUAL O F/F	28480 28480 04713 01295 01295	0757-0405 0757-0280 SN74H04N SN7496N SN7474N
U15 U17 U18 U21 U22	1820-0515 1858-0021 1858-0021 1820-0231 1820-0613	3 8 1 6	IC:TTL DUAL RE-TRIG/RE-SET MONO-MULTI TSTR ARRAY:5 HI-CURRENT NPN TSTR TSTR ARRAY:5 HI-CURRENT NPN TSTR IC:TTL 4-8IT SYNC 8INARY COUNTER IC:HS HEX INVERTER W/OPEN COLL.	07263 02735 02735 07263 01295	U78960259X CA3083 CA3083 U68931659X SN74H05N
U23 U25 U27 U28 U29	1820-0370 1820-0077 1858-0021 1858-0021 1820-0429	1	IC:TTL HS QUAD 2-INPT NANG GATE IC:TTL DUAL O F/F TSTR ARRAY:5 HI-CURRENT NPN TSTR TSTR ARRAY:5 HI-CURRENT NPN TSTR IC:LIN VOLTAGE REGULATOR (5V)	01295 01295 02735 02735 28480	SN74H00N SN7474N CA3083 CA3083 1820-0429
U32 U33 U35 U37 U38	1820-0515 1820-0619 1820-0515 1858-0021 1858-0001	1	IC:TTL QUAL RE-TRIG/RE-SET MONO-MULTI 1C:TTL HS DUAL 4-INPT NANO GATE(DPEN C) IC:TTL DUAL RE-TRIG/RE-SET MONO-MULTI TSTR ARRAY:5 HI-CURRENT NPN TSTR TSTR ARRAY:0UAL DIFF AMPL W/CONST CUR	07263 01295 07263 02735 02735	U78960259X SN74H22N U78960259X CA3083 80381
U45 U46 U47 U48 U55	1820-0239 1820-0205 1858-0021 1858-0021 1820-0077	1	IC:TTL QUAG 2-INPT NDR GATE IC:TTL QUAG 2-INPT DR GATE ISTR ARRAY:5 HI-CURRENT NPN TSTR ISTR ARRAY:5 HI-CURRENT NPN TSTR IC:TTL QUAL O F/F	28480 28480 02735 02735 01295	1820-0235 1820-0205 CA3083 CA3083 SN7474N
U56 U58 U62 U65 U67	1820-0424 1858-0021 1820-0174 1820-0616 1820-0742	7 1 3	IC:TTL HS HEX INVERTER TSTR ARRAY:5 HI-CURRENT NPN TSTR IC:TTL HEX INVERTER IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL GUAL 4-BIT LATCH	04713 02735 01295 07263 07263	SN74H04N CA3083 SN7404N U78932259X U6N930859X
U68 U69 U72 U73 U75	1820-0902 1820-0902 1820-0535 1820-0370 1820-0174	4 11	IC:TTL DUAL 2-INPT AND DRIVER IC:TTL DUAL 2-INPT AND DRIVER IC:TTL DUAL PERI.2-INPT AND DRIVER IC:TTL HS DUAD 2-INPT NAND GATE IC:TTL HEX INVERTER	01295 01295 01295 01295 01295	SN 75450AN SN 75450AN SN 75451P SN 74H00N SN 7404N
U77 U78 U79 U82 U92	1820-0111 1820-0902 1820-0902 1820-0605 1820-0535	1 2	IC:TTL 1 OUT DF 10 DECODER IC:TTL QUAL 2-INPT AND ORIVER IC:TTL QUAL 2-INPT AND GRIVER IC:TTL HS QUAD 2-INPT NANO GATE IC:TTL DUAL PERI.2-INPT AND ORIVER	07263 01295 01295 01295 01295	U68930I59X SN75450AN SN75450AN SN75410N SN75451P
U93 U98 U102 U103	1820-0141 1820-0742 1820-0535 1820-0174 1820-0370	1	IC:TTL OUAD 2-INPT AND GATE IC:TTL OUAL 4-8IT LATCH IC:TTL OUAL PERI.2-INPT AND ORIVER IC:TTL HEX INVERTER IC:TTL HS OUAD 2-INPT NAND GATE	047I3 07263 01295 0I295 0I295	MC3001P U6N930859X SN75451P SN7404N SN74H00N
U106 U108 U109 U110 U112	1820-0511 1820-0174 1820-0535 1820-0535 1820-0174	2	IC:TTL OUAD 2-INPT AND GATE IC:TTL HEX INVERTER IC:TTL OUAL PERI.2-INPT AND DRIVER IC:TTL DUAL PERI.2-INPT AND DRIVER IC:TTL HEX INVERTER	01295 01295 01295 01295 01295	SN7408N SN7404N SN75451P SN75451P SN7649N
U113 U119 U120 U122 U123	1820-0370 1820-0535 1820-0535 1820-0535 1820-0535	3	IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL QUAL PERI.2-INPT AND DRIVER IC:TTL QUAL PERI.2-INPT AND DRIVER IC:TTL QUAL PERI.2-INPT AND GRIVER IC:TTL QUAL PERI.2-INPT AND GRIVER IC:OIGITAL TTL 8-INPT PRIGRITY ENCODER	01295 01295 01295 01295 01295 07263	SN 74H00N SN 75451P SN 75451P SN 75451P U78931859X
U124 U126 U128 U129 U130	1820-0657 1820-0328 1820-0742 1820-0535 1820-0535	1	IC:DIGITAL TIL 8-INPT PRIORITY ENCODER IC:TTL QUAD 2-INPT NOR GATE IC:TTL DUAL 4-8IT LATCH IC:TTL DUAL PERI.2-INPT AND DRIVER IC:TTL DUAL PERI.2-INPT AND ORIVER	07263 04713 07263 01295 01295	U78931859X SN7402N U6N930859X SN75451P SN75451P
U132 U142 U143 U146 U148	1820-0605 1820-0535 1820-0282 1820-0174 1820-0657	3	IC:TTL HS QUAD 2-INPT NANO GATE IC:TTL DUAL PERI.2-INPT AND ORIVER IC:TTL OUAD 2-INPT EXCL. OR GATE IC:TTL HEX INVERTER IC:DIGITAL TIL 8-INPT PRIORITY ENCODER	01295 01295 01295 01295 01295 07263	SN74HOIN SN75451P SN7486N SN7404N U78931859X

Table 2-33. Disc File Bus PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Ωty	Description	Mfr Code	Mfr Part Number
U152 U152 U154 U155 U156	1820-0174 1820-0374 1820-0372 1820-0374 1820-3282	2 1	IC:TTL HEX INVERTER IC:TTL HS DUAL 4-INPT AND GATE IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HS DUAL 4-INPT AND GATE IC:TTL OUAD 2-INPT EXCL. OR GATE	01295 01295 28480 01295 01295	SN7404N SN74H21N 1820-0372 SN74H21N SN7486N
U158 U163 U164 U166 U168	1820-0755 1820-0726 1820-0726 1820-0726 1820-0755	5	IC IC:TTL 8-8IT SHIFT REG. PAR IN/DUT IC:TTL 8-8IT SHIFT REG. PAR IN/OUT IC:TTL 8-8IT SHIFT REG. PAR IN/OUT IC	28480 01295 01295 01295 28480	1820-0755 SN74199 SN74199 SN74199 1820-0755
U173 U174 U175 U176 U178	1820-0613 1820-0613 1820-0613 1820-0613 1820-0755		IC:HS HEX INVERTER W/OPEN COLL. IC	01295 01295 01295 01295 28480	SN74H05N SN74H05N SN74H05N SN74H05N 1820-0755
U184 U185 U186 U188 U193	1820-0282 1820-0715 1820-0715 1820-0755 1820-0726	2	IC:TTL OUAD 2-INPT EXCL. OR GATE IC:TTL OIGITAL HI-SPEED J-K F/F IC:TTL OIGITAL HI-SPEED J-K F/F IC IC IC:TTL 8-8IT SHIFT REG. PAR IN/OUT	01295 01295 01295 28480 01295	SN7486N SN74H106N SN74H106N 1820–0755 SN74199
U194 U195 U196 U198	1820-0613 1820-0511 1820-0705 1820-0755	1	IC:HS HEX INVERTER M/OPEN COLL. IC:TTL OUAD 2-INPT AND GATE IC:TTL SYNC PRESET OECAGE CDUNTER IC	01295 01295 07263 28480	SN74H05N SN7408N U78931059X 1820-0755

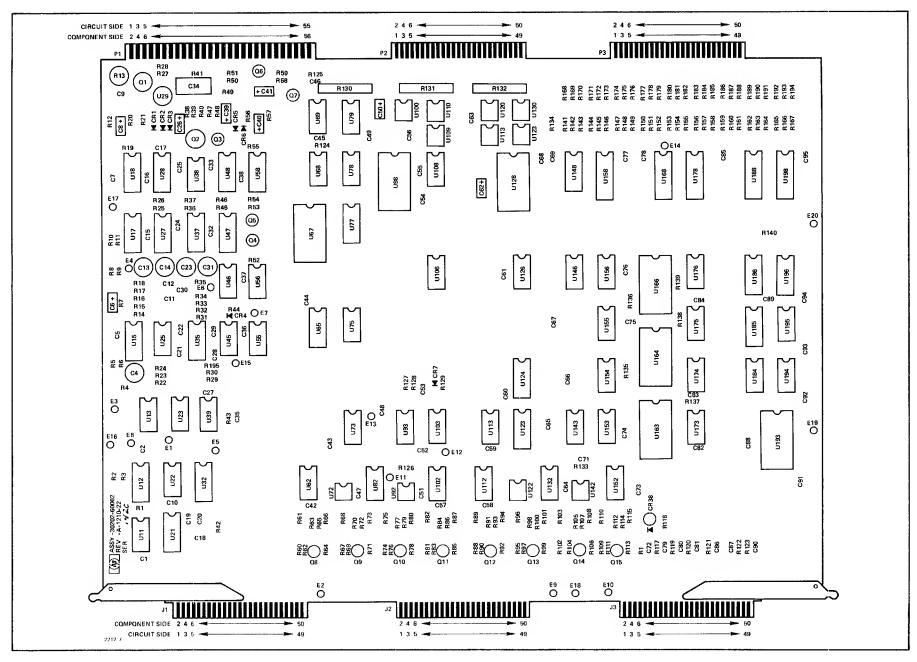


Figure 2-32. Disc File Bus PCA, Parts Location Diagram

Table 2-34. Disc Controller Processor PCA, Replaceable Parts

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
C1	30202-60003 0160-2101	1	DISC CONTROLLER PROCESSOR PCA C=FXD MICA 2TPF 2% 300VDCW	28480 72136	30202-60003 RDM15E2T0G3C
C2 C8 C8	0160-2055 0160-2055		THRU C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C9 C10 C11 C12 C13	0180-0197 0180-0197 0160-2140 0160-2140 0160-2055	2	C:FXD ELECT 2-2 UF 10% 20VDCW C:FXD ELECT 2-2 UF 10% 20VDCW C:FXD CER 470 PF +80-20% 1000VDCW C:FXD CER 470 PF +80-20% 1000VDCW C:FXD CER 470 PF +80-20% 1000VDCW C:FXD CER 3-01 UF +80-20% 100VOCW	56289 56289 91418 91418 56289	1500225X9020A2-DYS 1500225X5020A2-DYS TYPE 8 C023F101F103ZS22-COH
C14 C15 C16	0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56 289 56 289 56 289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C1T C79 C80	0160-2055		THRU C:FXD CER 0.01 UF +80-20% 100VDCW THRU	56289	C023F101F103ZS22-CDH
C91 CR1 O1 R1 R2	0160-2055 1901-0340 1850-0158 0698-3444 1810-0030	1 1 1 5	C:FXD CER 0.01 UF +80-20% 100VDCW D100E:SILICON 50 MA 30 MY TSTR:GE PNP R:FXD MET FLM 316 DHM 1% 1/8W NETWORK:T RESISTDRS 1K DHM 5% 0.15W EA	56289 07263 80131 28480 28480	C023F101F103ZS22-CDH F0G1088 2N2635 0698-3444 1810-0030
R 3 R4 R5 R6 RT	0698-3441 0T57-0280 0698-4037 0757-0280 0757-0280	1 11 1	R:FXO MET FLM 215 OHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 46.4 OHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3441 0757-0280 0698-4037 0757-0280 0751-0280
R8 R9 R10 R11 R12	0T57-0280 0T5T-0280 075T-0280 1810-0030 1810-0030		R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W NETWORK:T RESISTORS 1K DHM 5% 0-15W EA NETWORK:T RESISTORS 1K DHM 5% 0-15W EA	28 480 28 480 28 480 28 480 28 480	0T57-0280 0T57-0280 0T57-0280 1810-0030 1810-0030
R13 R14 R15 R16 R17	0T57-0280 0T57-0280 0757-0280 1810-0030 0757-0280	1	R:FXO MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W NETWDRR:7 RESISTORS 1K DHM 5% 0-15W EA R:FXO MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	0T5T-0280 0T5T-0280 0T5T-0280 1810-0030 0T5T-0280
R18 R19 R20 U11 U14 R21 U15 U16 U1T U18	1810-0030 075T-0280 075T-0401 1820-03TT 1820-0788 0757-0280 1820-0424 1820-0538 1820-0512 1820-0205	1 2 7 3 1 3 6	NETWORK:T RESISTORS 1K OHM 5% 0.15W EA R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 100 OHM 1% 1/8W IC:TTL HS OUAL 2-WIDE 2-INPT IC:TTL HS O-TYPE FLIP/FLOP WITH CLEAR R:FXD MET FLM 1K DHM 1% 1/8W IC:TTL HS HEX INVERTER IC:TTL QUAO 2-INPT NAND BUFFER IC:TTL HS OUAL 0 F/F435 MHZ MIN.) IC:TTL QUAO 2-INPT OR GATE IC:TTL QUAO 2-INPT NOR GATE	28480 28480 28480 01295 01295 23480 04113 01295 01295 28480 28480	1810-0030 0T5T-0280 0T5T-0401 SN74H50N SN35431 0757-0280 SN74H04N SNT437N SN74H74N 1820-0205 1820-0239
U21 U24 U25 U26 U27	1820-0142 1820-0371 1820-0370 1820-0376 1820-0424	1 5 1 3	INTEGRATEO CIRCUIT:41NPUT.2-OR/NOR IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS OUAD 2-INPT NAND GATE IC:TTL HS DUAL 4-INPT NAND BUFFER IC:TTL HS HEX INVERTER	04713 01295 01295 01295 04713	MC 10 04P SN 74H10N SN 74H00N SN 74H40N SN 74H60N
U28 U29 U31 U32 U33	1820-0376 1820-0535 1820-0379 1820-0379 1820-0379	1 12	IC:TTL HS DUAL 4-INPT NAND BUFFER IC:TTL DUAL PERI-2-INPT AND DRIVER IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE	01295 01295 01295 01295 01295	SNT4H40N SNT5451P SNT4H52N SNT4H52N SNT4H52N
U34 U34 U35 U36 U37	1820-0140 1820-0512 1820-0384 1820-0371 1820-0141	4 1 1	IC:TTL DUAL 4-INPT AND BUFFER IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL HS TRIPLE 3-INPT EXPANDER IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL QUAO 2-INPT AND GATE	04T13 01295 01295 01295 04T13	MC 3026P SNT4HT4N SNT4H61N SNT4H10N MC 3001P
U38 U41 U42 U43 U44	1820-0140 1820-0379 1820-0379 1820-0379 1820-0140		IC:TTL OUAL 4-INPT AND BUFFER IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL OUAL 4-INPT AND BUFFER	04T13 01295 01295 01295 01295 04713	MC 30 26P SN 74H52N SN 74H52N SN 74H52N MC 30 26P
U45 U47 U48 U49 U59	1820-0495 1820-0495 1820-03T2 1820-03T7 1820-03T1	2 3	IC:TTL 1 OF 16 OECODER IC:TTL 1 OF 16 DECODER IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HS OUAL 2-MIDE 2-INPT IC:TTL HS TRIPLE 3-INPT NANO GATE	01295 01295 28480 01295 01295	SNT4154N SNT4154N 1820-03T2 SN74H50N SN74H10N
U61 U62 U63 U64 U65	1820-03T9 1820-03T9 1820-03T9 1820-0424 1820-0371		IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE IC:TTL HS HEX INVERTER IC:TTL HS TRIPLE 3-INPT NANO GATE	01295 01295 01295 01295 04713 01295	SN74H52N SNT4H52N SN74H52N SN74H04N SN74H010N

Table 2-34. Disc Controller Processor PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U66 U67 U68 U69 U71	1820-0372 1820-0375 1820-0205 1820-0376 1820-0379	1	IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HS 8-INPT NAND GATE IC:TTL QUAD 2-INPT OR GATE IC:TTL HS OUAL 4-INPT NAND SUFFER IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE	28480 01295 28480 01295 01295	1820-0372 SN74H30N 1820-0205 SN74H40N SN74H52N
U72 U73 U74 U75 U76	1820-0379 1820-0379 1820-0512 1820-0788 1820-0759	21	IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE IC:TTL HS OUAL O F/F(35 MHZ MIN.) IC:TTL HEX B-TYPE FLIP/FLOP WITH CLEAR IC:TTL LOW-POWER 8-8IT RECEIVER	01295 01295 01295 01295 01295 28480	SN74H52N SN74H52N SN74H74N SN35431 1#20-0759
U77 U78 U79 U81 U82	1820-0205 1820-0282 1820-0140 1820-0788 1820-0759	1	IC:TTL OUAO 2-INPT OR GATE IC:TTL QUAO 2-INPT EXCL. OR GATE IC:TTL QUAL 4-INPT AND SUFFER IC:TTL HEX 0-TYPE FLIP/FLOP WITH CLEAR IC:TTL LOW-POWER 8-BIT RECEIVER	28480 01295 04713 01295 28480	1820-0205 SN7486N MC3026P SN35431 1820-0759
U84 U85 U86 U87 U88	1820-0759 1820-0371 1820-0843 1820-0843 1820-0205	3	IC:TTL LOW-POWER 8-81T RECEIVER IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL DUAL OATA OISTRIBUTOR IC:TTL OUAL OATA OISTRIBUTOR IC:TTL QUAD 2-INPT OR GATE	28480 01295 04713 04713 28480	1820-0755 SN74H10N MC4002P MC4002P 1820-0205
U89 U91 U92 U93 U94	1820-0372 1820-0788 1820-0788 1820-0788 1820-0759		IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HEX 0-TYPE FLIP/FLOP WITH CLEAR IC:TTL HEX 0-TYPE FLIP/FLOP WITH CLEAR IC:TTL HEX 0-TYPE FLIP/FLOP WITH CLEAR IC:TTL LOW-POWER 8-8IT RECEIVER	28480 01295 01295 01295 28480	1820-0372 \$N35431 \$N35431 \$N35431 1820-0759
U 95 U 96 U 97 U 98 U 99	1820-0843 1820-0788 1820-0205 1820-0759 1820-0608	1	IC:TTL OUAL DATA OISTRIBUTOR IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL OUAO 2-INPT DR GATE IC:TTL LOM-POWER 8-BIT RECEIVER IC:TTL 1 OF OECODER W/ENABLE	04713 01295 28480 28480 04713	MC4002P SN35431 1820-0205 1820-0759 MC4006P
U101 U103 U104 U105 U107	1820-0545 1820-0742 1820-0759 1820-0755 1820-0742	7 14 7	IC:TTL SYNC 4-BIT UP-DOWN COUNTER IC:TTL OUAL 4-BIT LATCH IC:TTL LOW-POWER 8-BIT RECEIVER IC IC:TTL OUAL 4-BIT LATCH	01295 07263 28480 28480 07263	SN74191N U6N930859X 1820-0759 1820-0755 U6N930859X
U106 U109 U111 U114 U115	1820-0759 1820-0742 1820-0545 1820-0759 1820-0755		IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL OUAL 4-8IT LATCH IC:TTL SYNC 4-8IT UP-OOWN COUNTER IC:TTL LOW-POWER 8-8IT RECEIVER IC	28480 07263 01295 28480 28480	1820-0759 U6N930859X SN74191N 1820-0759 1820-0755
U118 U121 U123 U127 U127	1820-0759 1820-0545 1820-0742 1820-0606 1820-0742	4	IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL SYNC 4-8IT UP-OOWN COUNTER IC:TTL OUAL 4-8IT LATCH IC:TTL ARITH. LOGIC UNIT/FUNCTION GEN. IC:TTL OUAL 4-8IT LATCH	28480 01295 07263 01295 07263	1820-0759 SN74191N U6N930859X SN74181N U6N930859X
U131 U134 U135 U137 U138	1820-0205 1820-0759 1820-0755 1820-0606 1820-0759		IC:TTL OUAO 2-INPT OR GATE IC:TTL LOW-POWER 8-8IT RECEIVER IC IC:TTL ARITH. LOGIC UNIT/FUNCTION GEN. IC:TTL LOW-POWER 8-8IT RECEIVER	28480 28480 28480 01295 28480	1820-0205 1820-0759 1820-0755 SN74181N 1820-0759
U141 U143 U144 U145 U147	1820-0640 1820-0742 1820-0759 1820-0755 1820-0611	1	IC:TTL OATA SELECTOR/MULTIPLEXER IC:TTL OUAL 4-81T LATCH IC:TTL LOW-POWER 8-81T RECEIVER IC IC:TTL LOOK-AHEAO CARRY GENERATOR	01295 07263 28480 28480 01295	SN 74150N U6N930859X 1820-0759 1820-0755 SN 74182N
U14 E U149 U151 U153 U154	1820-3759 1820-0742 1820-0545 1820-0742 1823-0759		IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL OUAL 4-8IT LATCH IC:TTL SYNC 4-8IT UP-DOWN COUNTER IC:TTL OUAL 4-8IT LATCH IC:TTL LOW-POWER 8-8IT RECEIVER	28480 07263 01295 07263 28480	1820-0759 U6N930859X SN74191N U6N930859X 1820-0759
U155 U158 U159 U161 U164	1820-0755 1820-0759 1820-0742 1820-0545 1820-0759		IC IC:TTL LON-POWER 8-8IT RECEIVER IC:TTL OUAL 4-8IT LATCH IC:TTL SYNC 4-8IT UP-OOWN COUNTER IC:TTL LOW-POWER 8-BIT RECEIVER	28480 28480 07263 01295 28480	1820-0755 1820-0759 U6N930859X SN74191N 1820-0759
U165 U167 U166 U171 U173	1820-0755 1820-0606 1820-0759 1820-0374 1820-0742	1	IC IC:TIL ARITH. LOGIC UNIT/FUNCTION GEN. IC:TIL LOW-POWER 8-81T RECEIVER IC:TIL HS OUAL 4-INPT ANC GATE IC:TIL OUAL 4-BIT LATCH	28480 01295 28480 01295 07263	1820-0755 SN74181N 1820-0759 SN74H21N U6N930859X
U177 U179 U181 U184 U188	1820-3606 1823-0742 1820-3545 1820-0759 1820-0759		IC:TTL ARITH. LOGIC UNIT/FUNCTION GEN. IC:TTL OUAL 4-8IT LATCH IC:TTL SYNC 4-8IT UP-OOWN COUNTER IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL LOW-POWER 8-8IT RECEIVER	01295 07263 01295 28480 28480	SN74181 N USN93085 9X SN74191N 1820-075 9 1820-075 9

Table 2-34. Disc Controller Processor PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U191 U193 U194 U195 U197 U198 U199 Y1	1820-0545 1820-0742 1820-0759 1820-0755 1820-0742 1820-0759 1820-0742 0410-0452		IC:TTL SYNC 4-BIT UP-OOWN COUNTER IC:TTL DUAL 4-BIT LATCH IC:TTL LOW-PDWER 8-BIT RECEIVER IC IC:TTL DUAL 4-BIT LATCH IC:TTL LOW-PDWER 8-BIT RECEIVER IC:TTL OUAL 4-BIT LATCH CRYSTAL:OUARTZ 10 MH	01295 07263 28480 28480 07263 28480 07263 28480	SN74191N U6N930859X 1820-0159 1820-0155 U6N930859X 1820-0759 U6N930859X 0410-0452

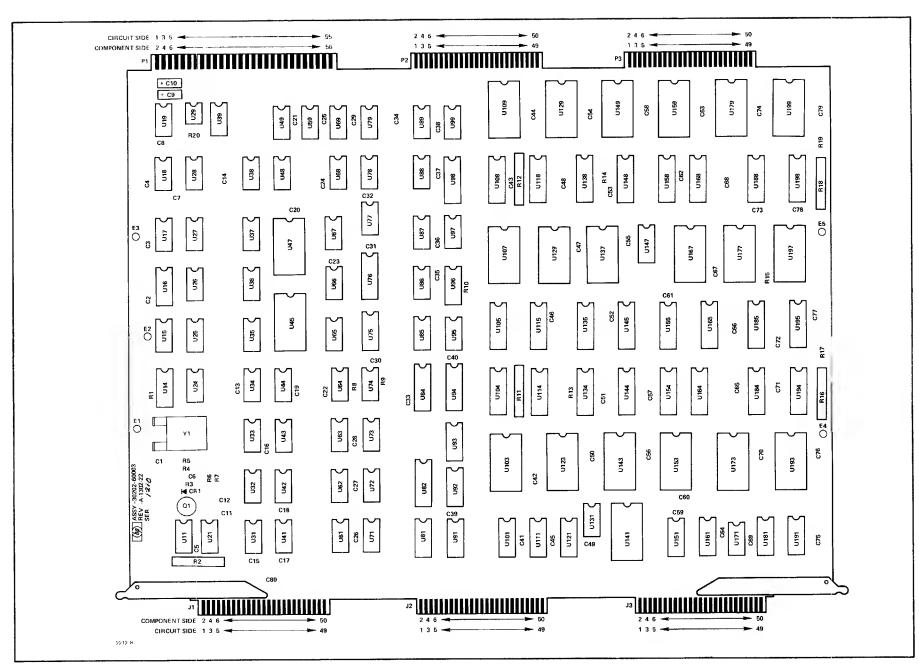


Figure 2-33. Disc Controller Processor PCA, Parts Location Diagram

Table 2-35. Disc Memory Controller PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
	30203-60001	1	DISC MEMDRY CONTROLLER PCA	28480	30203-6DDD1
C1	0160-2055	58	C:FXD CER D.01 UF +80-20% 1D0VDCW	56289	CD23F101F1D3ZS22-CDH
C2 C3 C4 C5 C6	0160-2055 0160-2055 0160-2055 0160-2055 0160-2202	2	C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD MICA 75 PF 5%	56289 56289 56289 56289 28480	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F1D3ZS22-CDH 0160-2ZD2
C7 C8 C9 C1D C11	0160-2055 0160-2202 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO MICA 75 PF 5% C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 28480 56289 56289 56289	CD23F101F103ZS22-CDH 0160-2202 C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C12 C13 C14 C15 C16	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0-01 UF +80-20% 100YDCW	56289 56289 56289 56289 56289	C023F101F1D3ZS22 - C0H C023F101F103ZS22 - CDH C023F101F103ZS22 - CDH C023F101F103ZS22 - CDH
C17 C18 C19 C20 C21	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22=C0H C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=COH C023F101F103ZS22=COH C023F101F103ZS22=COH
C22 C23 C24 C25 C26	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER D.01 UF +80-20% 100YDCW C:FXD CER 0.01 UF +80-20% 100YDCW	56289 56289 56289 56289 56289	C023F101F103Z522=C0H C023F101F103Z522=C0H C023F101F103Z522=C0H C023F101F103Z522=C0H C023F101F103Z522=C0H
C27 C28 C29 C30 C31	0160-2055 0160-2055 D160-2055 D160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=CDH
C32 C48 C49 C50 C51	0160-2204 0160-2055 0160-2199 0160-2055 0160-2055	3 1	C:FXO MICA 100PF 5% C:FXO CER D=01 UF +80-20% 100VDCW C:FXO MICA 30 PF 5% 300VDCW C:FXD CER 0=01 UF +80-20% 100VDCW C:FXO CER 0=01 UF +80-20% 100VDCW	72136 56289 28480 56289 56289	ROM15F101J3C C023F101F1D3Z522-CDH D160-2199 C023F101F103Z522-CDH C023F101F103Z522-CDH
C52 C53 C54 C55 C56	0160-2055 0160-2055 0160-2055 0160-2204 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO MICA 100PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 72136 56289	C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=CDH RDM15F101J3C C023F101F103ZS22=CDH
C57 C58 C59 C60 C61	0160-2055 0160-2055 0160-2055 0160-2055 0160-2204		C:FXO CER 0.01 UF +80-20% 1DDVDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO MICA 100PF 5%	56289 56289 56289 56289 72136	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH R0M15F101J3C
C62 C63 C64 C65 C66	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=CDH
C67 C68 C69 C70 C71	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C72 C73 C74 C75 C76	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C77 R1 R2 R3 R4	0160-2055 0698-3155 0757-0279 0757-0279 0698-3155	5 2	C:FXD CER 0-01 UF +80-20\$ 100V0CW R:FXD MET FLM 4-64K QHM 1\$ 1/8W R:FXO MET FLM 3-16K QHM 1\$ 1/8W R:FXO MET FLM 3-16K QHM 1\$ 1/8H R:FXD MET FLM 4-64K QHM 1\$ 1/8W	56289 28480 28480 28480 28480	C023F101F103ZS22-CDH 0698-3155 0757-0279 0757-0279 0698-3155
R 5 R 6 R 7 R 8 R 9	0698-4421 0757-0280 0698-3155 0757-0401 1810-0125	1 1 2	R:FXO FLM 249 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 4-64K OHM 1% 1/8W R:FXO MET FLM 100 OHM 1% 1/8W RESISTIVE NETWORK:7 X 4-7K DHM 5% 0-15W	28480 28480 28480 28480 28480	0698-4421 0757-0280 0698-3155 0757-0401 1810-0125

Table 2-35. Disc Memory Controller PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
R1D R11 R12 R13 R14	1810-0125 0151-0442 0751-0442 0698-3155 0698-3155	2	RESISTIVE NETWORK: T X 4-TK OHH 5% D-15W R:FXD HET FLM 10-0K OHM 1% 1/8W R:FXO HET FLM 10-0K DHH 1% 1/8W R:FXO HET FLM 4-64K OHM 1% 1/8W R:FXO MET FLM 4-64K OHH 1% 1/8W	28480 28480 28480 28480 28480	1810-0125 075T-0442 0T5T-0442 0698-3155 0698-3155
U25 U2T U31 U32 U33	1820-0844 1820-0301 1820-0715 1820-0205 1820-0068	1 3 T 3 2	IC:TTL QUAL 3-INPT PULSE SHAPER IC:TTL QUAO BI-STABLE O-LATCH IC:TTL DIGITAL HI-SPEEO J-K F/F IC:TTL QUAO 2-INPT DR GATE IC:TTL TRIPLE 3-INPUT PDS NAND GATE	04T13 01295 01295 28480 12040	MC426P SNT475N SNT4H106N 1820-0205 SNT410N
U34 U35 U36 U3T U38	1820-00T7 1820-02D5 1820-0239 1820-0T82 1820-0DTT	7 1 2	IC:TTL QUAL D F/F IC:TTL QUAO 2-INPT DR GATE IC:TTL QUAO 2-INPT NDR GATE IC:TTL TRIPLE 3-INPT NOR GATE IC:TTL TRIPLE 3-INPT NOR GATE IC:TTL QUAL O F/F	01295 2848D 28480 01295 01295	SNT4T4N 1820-D205 1820-0239 SNT4ZTN SNT4T4N
U41 U42 U43 U44 U45	1820-00TT 1820-0054 1820-0141 1820-0424 1820-0370	5 6 2 4	IC:TTL DUAL O F/F IC:TTL OUAO 2-INPT NAND GATE IC:TTL OUAO 2-INPT ANO GATE IC:TTL HS HEX INVERTER IC:TTL HS QUAD 2-INPT NAND GATE	01295 01295 04713 D4713 01295	SNT474N SNT40CN HC3001P SNT4H04N SNT4H00N
U46 U4T U48 U51 U52	1820-0141 1820-0141 1820-0686 1820-0174 1820-0328	1 2 4	IC:TTL QUAO 2-INPT ANO GATE IC:TTL QUAD 2-INPT ANO GATE IC:TTL SCHOTTKY TRIPLE 3-INPT ANO GATE IC:TTL HEX INVERTER IC:TTL QUAD 2-INPT NOR GATE	04T13 04T13 01295 01295 04713	HC3001P MC3001P SNT4S11N SNT404N SNT402N
U53 U54 U55 U56 U5T	1820-0054 1820-03T2 1820-0328 1820-03T4 1820-007T	3 2	IC:TTL QUAD 2-INPT NANO GATE IC:TTL TRIPLE 3-INPT ANO GATE IC:TTL QUAD 2-INPT NDR GATE IC:TTL HS DUAL 4-INPT AND GATE IC:TTL DUAL 0 F/F	01295 28480 04T13 01295 01295	SNT400N 1820-03T2 SNT402N SNT4H21N SNT4T4N
U58 U61 U62 U63 U64	1820-0761 1820-0372 1820-0054 1820-0715 1820-0077	2	IC:TTL DIGITAL IC:TTL TRIPLE 3-INPT AND GATE IC:TTL OUAD 2-INPT NAND GATE IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL OUAL O F/F	28480 28480 01295 01295 01295	1820-0161 1820-0312 SNT400N SNT4H106N SNT4T4N
U65 U66 U6T U68 UT6	1820-0174 1820-0424 1820-0214 1820-0760 1820-0371	1 1 2	IC:TTL HEX INVERTER IC:TTL HS HEX INVERTER IC:TTL 8CO TO OEC. DECGDER IC:TTL 8-81T RECEIVER INVERTING IC:TTL HS TRIPLE 3-INPT NANO GATE	01295 04T13 01295 28480 01295	SN7404N SN74404N SN7442N 1820-0160 SN74H10N
UTT 8 UB6 UB6 UBT UBB	1820-0 T15 1820-0T59 1820-0141 1820-0T15 1820-0759	2	IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL LOM-POMER 8-8IT RECEIVER IC:TTL QUAO 2-INPT AND GATE IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL LOM-POWER 8-BIT RECEIVER	01295 28480 04T13 01295 28480	SNT4H106N 1820-0T59 MC3001P SN74H106N 1820-0759
U96 U9T U106 U10T U111	1820-03T0 1820-0141 1820-03T0 1820-0373 1820-043T	1 2	IC:TTL HS OUAO 2-INPT NANO GATE IC:TTL QUAO 2-INPT ANO GATE IC:TTL HS OUAO 2-INPT NANO GATE IC:TTL HS OUAL 4-INPT NANO GATE IC:TTL OUAD D F/F	01295 04713 01295 01295 04713	SNT4HOON HC3001 P SNT4HOON SN74H2ON HC4015P
U112 U113 U114 U115 U116	1820-043T 1820-0T82 1820-061T 1820-0610 1820-0301	1 1	IC:TTL OUAO O F/F IC:TTL TRIPLE 3-INPT NOR GATE IC:TTL OUAO 2-INPT EXCL. NOR GATE IC:TTL OUAO 4-UNPT HULTIPLEXER IC:TTL QUAO BI-STABLE 0-LATCH	04T13 01295 04T13 0T263 01295	HC4015P SNT42TN MC3022P U68930959X SNT475N
U11T U118 U121 U122 U123	1820-007T 1820-0515 1820-03T6 1820-03T4 1820-0515	2 1	IC:TTL DUAL Q F/F IC:TTL DUAL RE-TRIG/RE-SET HONO-MULTI IC:TTL HS OUAL 4-INPT NANO BUFFER IC:TTL HS DUAL 4-INPT ANO GATE IC:TTL OUAL RE-TRIG/RE-SET MDNO-MULTI	01295 07263 01295 01295 07263	SNT4T4N UT8960259X SNT4H40N SNT4H21N UT8960259X
U124 U125 U126 U127 U128	1820-0328 1820-0371 1820-0715 1820-0068 1820-0761		IC:TTL QUAD 2-INPT NOR GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL TRIPLE 3-INPUT POS NANO GATE IC:TTL OIGITAL	04713 01295 01295 12040 28480	SN7402N SNT4H10N SNT4H106N SNT410N 1820-0161
U131 U132 U133 U134 U135	1820-0054 1820-0205 1820-0301 1820-0141 1820-03T2		IC:TTL QUAO 2-INPT NANO GATE IC:TTL QUAD 2-INPT OR GATE IC:TTL QUAD 81-STABLE O-LATCH IC:TTL OUAO 2-INPT AND GATE IC:TTL TRIPLE 3-INPT ANO GATE	01295 28480 01295 04T13 28480	SNT400N 1820-0205 SNT4T5N HC3001P 1820-03T2
U136 U137 U141 U142 U143	1820-0715 1820-03T0 1820-0231 1820-0231 1820-00TT	2	IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL HS OUAD 2-INPT NANO GATE IC:TTL 4-BIT SYMC BINARY COUNTER IC:TTL 4-BIT SYMC BINARY COUNTER IC:TTL OUAL O F/F	01295 01295 07263 07263 01295	SNT4H106N SNT4H00N U68931659X U68931659X SNT4T4N

Table 2-35. Disc Memory Controller PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
U144 U145 U146 W6	1820-0054 1820-0715 1820-0328 8159-0005		IC:TTL QUAO 2-INPT NANO GATE IC:TTL QUAO 2-INPT NANO GATE IC:TTL QUAO 2-INPT NOR GATE JUMPER WIRE	01295 01295 04713 28480	SN7400N SN74H106N SN7402N 8159-0005

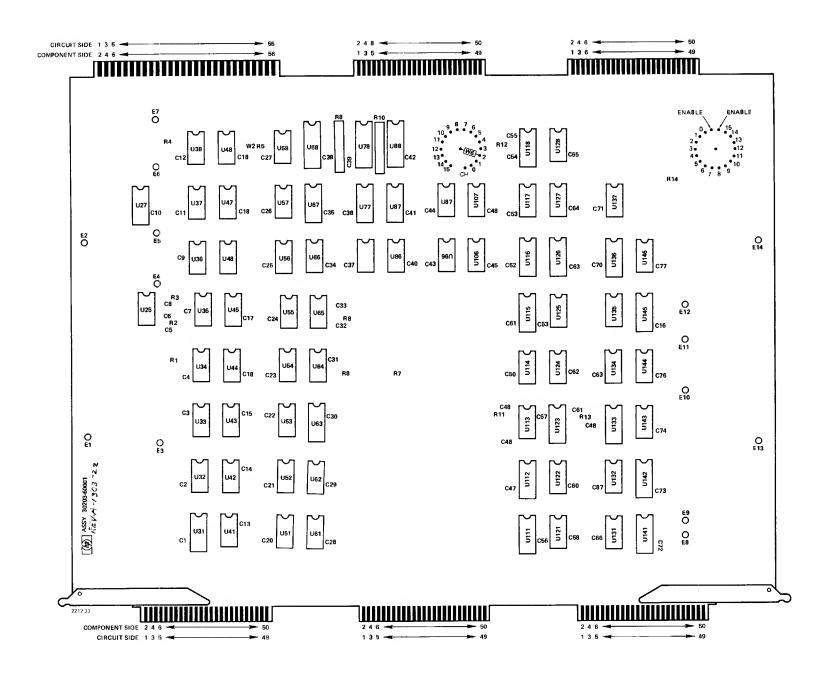


Figure 2-34. Disc Memory Controller PCA, Parts Location Diagram

Table 2-36. Disc Memory Data PCA. Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
	30203-60002	1	OISC MEMORY OATA (PCA)	28480	30203-60002
C1	0160-2143	19	C:FXD CER 2000 PF +80-20% 1000VDCW	91418	TYPE 8
C2 C3 C4 C5 C6	0160-2143 0160-2055 0160-2055 0160-2055 0160-2055	38	C:FXO CER 2000 PF +80-20% 1000V0CW C:FXO CER 0-01 UF +80-20% 100V0CW	91418 56289 56289 56289 56289	TYPE 8 C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-CDH
C7 C8 C9 C10 C11	0160-2143 0160-2055 0160-2055 0160-2055 0160-2143		C:FXO CER 2000 PF +8D-20% 1000VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +8D-20% 100VDCW C:FXO CER 0.01 UF +8D-20% 100VDCW C:FXO CER 2000 PF +8D-20% 1000VDCW	91418 56289 56289 56289 91418	TYPE 8 C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H TYPE 8
C12 C13 C14 C15 C16	0160-2143 0160-2143 0160-2143 0160-2055 0160-2143		C:FX0 CER 2000 PF +80-20% 1000VDCW C:FX0 CER 2000 PF +80-20% 1000VDCW C:FX0 CER 2000 PF +80-20% 1000VDCW C:FX0 CER 0.01 UF +80-20% 1000VDCW C:FX0 CER 2000 PF +80-20% 1000VDCW	91418 91418 91418 91418 56289 91418	TYPE 8 TYPE 8 TYPE 8 C023F101F103ZS22-C0H TYPE 8
C1T C18 C19 C20 C21	0160-2143 0160-2143 0160-2143 0160-2055 0160-2055		C:FXO CER 2000 PF +80-20% 1000VDCW C:FXO CER 2000 PF +80-20% 1000VDCW C:FXO CER 2000 PF +80-20% 1000VDCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW	91418 91418 91418 91418 56289 56289	TYPE 8 TYPE 8 TYPE 8 TYPE 8 C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C22 C23 C24 C25 C26	0160-2143 0160-2143 0160-2143 0160-2143 0160-2055		C:FXO CER 2000 PF +80-20% 1000VDCW C:FXD CER 2000 PF +80-20% 1000VDCW C:FXO CER 2000 PF +80-20% 1000VDCW C:FXO CER 2000 PF +80-20% 1000VDCW C:FXO CER 0-01 UF +80-20% 100VDCW	91418 91418 91418 91418 91418 56289	TYPE 8 TYPE 8 TYPE 8 TYPE 8 TYPE 8 C023F101F103ZS22-C0H
C2T C28 C29 C30 C31	0160-2055 0160-2143 0160-2055 0160-2143 0160-2143		C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 2000 PF +80-20% 1000VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 2000 PF +80-20% 1000VOCW C:FXD CER 2000 PF +80-20% 1000VOCW	56289 91418 56289 91418 91418	C023F101F103ZS22-CDH TYPE 8 C023F101F103ZS22-CDH TYPE 8 TYPE 8
C32 C33 C34 C35 C36	0160-2143 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 2000 PF +80-20% 1000VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	91418 56289 56289 56289 56289	TYPE 8 C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C37 C38 C39 C40 C41	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C42 C43 C44 C45 C46	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C4T C48 C49 C50 C51	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCH C:FXO CER 0.01 UF +80-20% 100VOCH	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-C0H
C52 C53 C54 C55 CR1	0160-2055 0160-2055 0160-2055 0160-2055 1902-0624	1	C:FXD CER 0-01 UF +80-20% 100V0CH C:FXD CER 0-01 UF +80-20% 100V0CH C:FXD CER 0-01 UF +80-20% 100V0CH C:FXD CER 0-01 UF +80-20% 100V0CH DIDDE:ZENER 3-6V 10%	56289 56289 56289 56289 12040	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H LM103 3.6V
Q1 R1 R2 R3 R4	1854-047T 0698-3439 0757-0401 0698-3441 0T5T-0397	1 1 1 1	TSTR:SI NPN R:FXO MET FLM 1T8 OHM 1% 1/8W R:FXO MET FLM 100 OHM 1% 1/8W R:FXO MET FLM 215 OHM 1% 1/8W R:FXO MET FLM 68-1 OHM 1% 1/8W	80131 28480 28480 28480 28480 28480	2N2222A 0698-3439 0T5T-0401 0698-3441 0T57-0357
R5 R6 R7 R8 R9	0757-0180 0698-3432 1810-0125 1810-0125 1810-0125	1 1 5	R:FXO MET FLM 31.6 DHM 1% 1/8W R:FXO MET FLM 26.1 DHM 1% 1/8W RESISTIVE NETWORK:7 X 4.TK DHM 5% 0.15W RESISTIVE NETWORK:7 X 4.TK OHM 5% 0.15W RESISTIVE NETWORK:7 X 4.TK OHM 5% 0.15W	28480 28480 28480 28480 28480 28480	0757-0180 0698-3432 1810-0125 1810-0125 1810-0125
R10 R11 U11 U13 U14	1810-0125 1810-0125 1820-0424 1820-0071 1820-0721	3 2 10	RESISTIVE NETWORK:T X 4.7K OHM 5% 0.15W RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W 1C:TTL HS HEX INVERTER IC:TTL DUAL 4-INPUT NANO 8UFFER IC:TTL DUAL 4-INPUT NANO EUFFER IC:TTL DUAL DIFFERENT. LINE RECEIVER	28480 28480 04T13 01295 12040	1810-0125 1810-0125 SNT4H04N SNT440N OM882 ON

Table 2-36. Disc Memory Data PCA. Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U17 U18 U21 U22 U23	1820-0538 1820-0836 1820-0720 1820-0376 1820-03721	3 5 1 1	IC:TTL QUAO 2-INPT NANO BUFFER IC:TTL QUAL 4-BIT PARITY TREE IC:TTL QUAL OIFFERENTIAL LINE ORIVER IC:TTL MS QUAL 4-INPT NANO BUFFER IC:TTL OUAL DIFFERENT. LINE RECEIVER	01295 04713 28480 01295 12040	SN7437N MC4010P 1820-0720 SN74M40N OMBB2 ON
U24 U25 U26 U27 U28	1820-0424 1820-0839 1820-0071 1820-0617 1820-0836	1	IC:TTL HS HEX INVERTER IC:TTL QUAO D-TYPE F/F IC:TTL DUAL 4-INPUT NANO BUFFER IC:TTL QUAO 2-INPT EXCL. NOR GATE IC:TTL QUAD 4-BIT PARITY TREE	04713 01295 01295 04713 04713	SN74HC4N SN74175N SN7440N MC3022P MC4010P
U31 U32 U33 U34 U35	1820-0721 1820-0721 1820-0721 1820-0721 1820-0788	3	IC:TTL DUAL OIFFERENT. LINE RECEIVER IC:TTL OUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL OIFFERENT. LINE RECEIVER IC:TTL DUAL OIFFERENT. LINE RECEIVER IC:TTL MEX O-TYPE FLIP/FLOP WITH CLEAR	12040 12040 12040 12040 01295	OMBB2 CN OMBB2 CN DMBB2 ON OMBB2 ON SN354 31
U36 U37 U38 U41 U42	1820-0538 1820-0617 1820-0836 1820-0780 1820-0780	В	IC:TTL QUAO 2-INPT NANO BUFFER IC:TTL QUAO 2-INPT EXCL. NOR GATE IC:TTL OUAL 4-BIT PARITY TREE IC:TTL TRI-STATE QUAO LINE ORIVER IC:TTL TRI-STATE QUAO LINE ORIVER	01295 04713 04713 28480 28480	SN7437N MC3022P MC4010P 1820-0780 1820-0780
U43 U44 U45 U48 U51	1820-0780 1820-0780 1820-0788 1820-0836 1820-0721		IC:TTL TRI-STATE QUAD LINE ORIVER IC:TTL TRI-STATE QUAD LINE DRIVER IC:TTL MEX D-TYPE FLIP/FLOP WITH CLEAR IC:TTL OUAL 4-BIT PARITY TREE IC:TTL OUAL 0IFFERENT. LINE RECEIVER	28480 28480 01295 04713 12040	1820-0780 1820-0780 SN35431 HC4010P OMBB20N
U52 U53 U54 U55 U58	1820-0721 1820-0721 1820-0721 1820-0610 1820-0836	8	IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL 4-UNPT MULTIPLEXER IC:TTL DUAL 4-BIT PARITY TREE	12040 12040 12040 07263 04713	OMBB2CN OMBB2ON OMB82ON U6B930959X MC4010P
U61 U62 U63 U64 U65	1820-0780 1820-0780 1820-0780 1820-0780 1820-0780		IC:TTL TRI-STATE QUAO LINE ORIVER IC:TTL OUAL 4-UNPT MULTIPLEXER	28480 28480 28480 28480 07263	1820-0780 1820-0780 1820-0780 1820-0780 U68930959X
U66 U71 U74 U75 U81	1820-0617 1820-0765 1820-0610 1820-0610 1820-0765	4	IC:TTL QUAO 2-INPT EXCL. NOR GATE IC:TTL 4-8IT BINARY COUNTER IC:TTL QUAL 4-UNPT MULTIPLEXER IC:TTL QUAL 4-UNPT MULTIPLEXER IC:TTL 4-8IT BINARY COUNTER	04713 01295 07263 07263 01295	MC3022P SN74197N U68930959X U68930959X SN74197N
U82 U83 U84 U85 U86	1820-0610 1820-0765 1820-0610 1820-0610 1820-0742	4	IC:TTL DUAL 4-UNPT MULTIPLEXER IC:TTL 4-BIT 8INARY COUNTER IC:TTL OUAL 4-UNPT MULTIPLEXER IC:TTL OUAL 4-WAPT MULTIPLEXER IC:TTL OUAL 4-8IT LATCM	07263 01295 07263 07263 07263	U68930959X SN74197N U68930959X U68930959X U6N930859X
U88 U91 U95 U102 U103	1820-0742 1820-0301 1820-0054 1820-0424 1820-0610	2 1	IC:TTL QUAL 4-81T LATCM IC:TTL QUAQ 81-STA8LE Q-LATCM IC:TTL QUAD 2-1NPT NANO GATE IC:TTL MS MEX INVERTER IC:TTL MS MEX INVERTER IC:TTL QUAL 4-UNPT MULTIPLEXER	07263 01295 01295 01295 04713 07263	U6N930B59 X SN7475N SN7400N SN74H04N U68930959X
U106 U108 U112 U113 U117	1820-0742 1820-0742 1820-0068 1820-0765 1820-0437	1 4	IC:TTL OUAL 4-8IT LATCH IC:TTL OUAL 4-8IT LATCH IC:TTL TRIPLE 3-INPUT POS NANO GATE IC:TTL 4-BIT 8INARY COUNTER IC:TTL QUAO 0 F/F	07263 07263 12040 01295 04713	U6N930859X U6N930859X SN7410N SN74197N MC4015P
U118 U121 U122 U123 U125	1820-0437 1820-0706 1820-0545 1820-0301 1820-0760	5 3	IC:TTL QUAO 0 F/F IC:OIGITAL TTL 5-BIT COMPARATOR IC:TTL SYNC 4-BIT UP-ODMN COUNTER IC:TTL QUAO 8I-STABLE O-LATCH IC:TTL B-BIT RECEIVER INVERTING	04713 04713 01295 01295 28480	MC4015P U78932459X SN74191N SN7475N 1820-0760
U126 U127 U128 U131 U132	1820-0761 1820-0437 1820-0437 1820-0706 1820-0545	1	IC:TTL OIGITAL IC:TTL QUAO O F/F IC:TTL QUAO O F/F IC:OIGITAL TTL 5-BIT COMPARATOR IC:TTL SYNC 4-BIT UP-OOWN COUNTER	28480 04713 04713 04713 01295	IB2C-0761 MC4015P MC4015P U7B932459X SN74191N
U133 U135 U136 U137 U138	1820-0250 1820-0756 1820-0706 1820-0760 1820-0759	2	INTEGRATEO CIRCUIT:TTL 6 8IT COMP IC:TTL 8-BIT ORIVER INVERTING IC:OIGITAL TIL 5-BIT COMPARATOR IC:TTL 8-BIT RECEIVER INVERTING IC:TTL LOW-POWER 8-BIT RECEIVER	28480 28480 04713 28480 28480	1820-0250 1820-0756 U78932459X 1820-0760 1820-0759
U141 U142 U143 U145 U146	1820-0706 1820-0545 1820-0788 1820-0756 1820-0706		IC:OIGITAL TTL 5-BIT COMPARATOR IC:TTL SYNC 4-BIT UP-DOWN COUNTER IC:TTL MEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL B-BIT ORIVER INVERTINE IC:OIGITAL TTL 5-BIT COMPARATOR	04713 01295 01295 28480 04713	U78932459X SN74191N SN35431 1820-0756 U78932459X

Table 2-36. Disc Memory Data PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U147 U148 U151 U152 U153 U157 U158 U161 U162 U164 U166 U167	1820-0755 1820-0755 1820-0141 1820-0538 1820-0506 1820-0759 1820-0335 1820-0835 1820-0835 1820-0506 1820-0755 1820-0755	2	IC IC IC:TTL QUAO 2-INPT ANO GATE IC:TTL QUAO 2-INPT NANO BUFFER IC:TTL QUAO 2-INPT, 4-BIT MULTIPLEXER IC:TTL 8-8IT RECEIVER INVERTING IC:TTL LOM-POWER 8-BIT RECEIVER IC:TTL 2-INPT 4-BIT OIGITAL MULTIPLIER IC:TTL 2-INPT 4-BIT OIGITAL MULTIPLIER IC:OIGITAL 2-INPT,4-BIT MULTIPLEXER IC IC	28480 28480 04713 01295 18324 28480 28480 18324 18324 18324 28480 28480	1820-0755 1820-0755 MC3001P SN7437N N82668 1820-0760 1820-0759 N82678 N82678 N82678 N82668 1820-0755 1820-0755

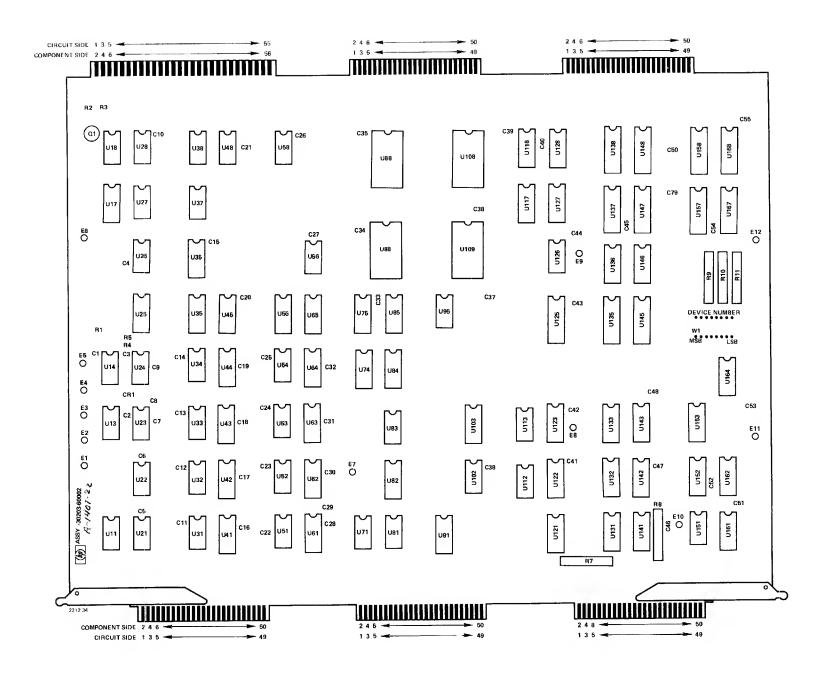


Figure 2-35. Disc Memory Data PCA, Parts Location Diagram

Table 2-37. Card Reader Interface PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
61 62 63 64	30206-600D1 0160-2055 0160-2055 0160-2055 0160-2055	1 46	CARD READER INTERFACE PCA C:FXD CER 0.01 UF +80-20% 1DOVDCH C:FXO CER 0.01 UF +80-20% 100VDCH C:FXO CER 0.01 UF +80-20% 100VDCH C:FXO CER 0.01 UF +80-20% 100VDCH	28480 56289 56289 56289 56289	30206-60001 C023F1D1F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C5 C6 C7 C8 C9	0160-2204 0160-2204 0160-2055 0160-3457 0160-3457	21	C:FXD HICA 100PF 5% C:FXO HICA 100PF 5% C:FXO CER 0.01 UF +80-20% 100VDCH C:FXO DISC CER 0.002 UF 10% 250VDCH C:FXD DISC CER 0.002 UF 10% 250VDCH	72136 72136 56289 56289 56289	RDM15F101J3C RDM15F101J3C C023F101F103ZS22-CDH C067F251F20ZKS22-CDH C067F251F20ZKS22-COH
C10 C11 C12 C13 C14	0160-2204 0160-2204 0160-2204 0160-2055 0160-3457		C:FXO MICA 100PF 5% C:FXD MICA 100PF 5% C:FXD MICA 100PF 5% C:FXD DISC CER 0-002 UF 10% 25DVDCW C:FXD DISC CER 0-002 UF 10% 25DVDCW	72136 72136 72136 56289 56289	ROM15F101J3C RDM15F101J3C RDM15F101J3C C023F101F103ZS22-CDH C067F251F202KS22-COH
C15 C16 C17 C18 C19	0160-3457 0160-3457 0180-0159 0160-2202 0160-2202	1 2	C:FXD 01SC CER 0.002 UF 10% 250VDCW C:FXD 01SC CER 0.002 UF 10% 250VDCW C:FXD ELECT 220 UF 20% 10VOCW C:FXD MICA 75 PF 5% C:FXO MICA 75 PF 5%	56289 56289 28480 28480 28480	C067F251F202KS22-CDH C067F251F20ZKS22-COH 0180-0159 0160-2202 0160-2202
C20 C21 C22 C23 C24	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-D1 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH CD23F101F103ZS22-CDH
C25 C26 C27 C28 C29	D160-2055 0160-2204 0160-2204 0160-3457 0160-3457		C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO 0ISC CER 0-002 UF 10% 250VDCW C:FXO 0ISC CER 0-002 UF 10% 250VDCW	56289 72136 72136 56289 56289	CD23F101F103ZS22-CDH RDM15F101J3C RDM15F101J3C C067F25JF20ZKS22-CDH C067F251F20ZKS22-CDH
C30 C31 C32 C33 C34	0160-2204 0160-2204 0160-2055 0160-3457 0160-3457		C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO CER 0.01 UF +80-20% 10DVDCW C:FXO OISC CER 0.002 UF 10% 25DVDCW C:FXO OISC CER 0.002 UF 10% 25DVDCW	72136 72136 56289 56289 56289	ROM15F101J3C ROM15F101J3C CO23F101F103ZS22-CDH CO67F251F20ZKS22-CDH CO67F251F20ZKS22-COH
C35 C36 C37 C38 C39	0160-2204 0160-2204 0160-3457 0160-3457 0160-2204		C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO OISC CER 0-002 UF 10% 250VDCW C:FXO OISC CER 0-002 UF 10% 250VOCW C:FXO MICA 100PF 5%	72136 72136 56289 56289 72136	ROM15F1G1J3C ROM15F1O1J3C CO67F251F2O2KS22-COH CO67F251F2O2KS22-COH RDM15F1O1J3C
C40 C41 C42 C43 C44	0160-2204 0160-2055 0160-3457 0160-3457 0160-2055		C:FXD HICA 100PF 5% C:FX0 CER 0-01 UF +80-20% 100VOCW C:FXD DISC CER 0-002 UF 10% 250VOCW C:FX0 OISC CER 0-002 UF 10% 250VOCW C:FX0 CER 0-01 UF +80-20% 1D0VDCW	72136 56289 56289 56289 56289	ROM15F101J3C C023F101F103ZS22-COH C067F25IF20ZKS22-COH C067F25IF20ZKS22-CDH C023F101F103ZS22-CDH
C48 C49 C50 C51 C52	0160-2055 0160-2204 0160-2204 0160-3457 0160-3457		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO 0ISC CER 0.002 UF 10% 250V0CW C:FXO 0ISC CER 0.002 UF 10% 250V0CW	56289 72136 72136 56289 56289	C023F101F103ZS22-CDH R0M15F101J3C R0M15F101J3C CD67F251F2DZKS22-COH CD67F251F20ZKS22-CDH
C53 C54 C55 C56 C57	0160-2204 0160-2204 0160-2055 0160-3457 0160-3457		C:FXD MICA 100PF 5% C:FXO MICA 100PF 5% C:FXO CER 0-01 UF +80~20% 100VOCH C:FXO OISC CER 0-002 UF 10% 250VOCH C:FXO OISC CER 0-002 UF 10% 250VOCH	72136 72136 56289 56289 56289	RDM15F1C1J3C RDM15F101J3C C023F101F103ZS22-COH C067F251F20ZKS22-COH C067F251F20ZKS22-COH
C 58 C 59 C 60 C 61 C 62	0160-2204 0160-2204 0160-3457 0160-3457 0160-2204		C:FXO MICA 100PF 5% C:FXD MICA 100PF 5% C:FXO DISC CER 0.002 UF 10% 250V0CH C:FXD DISC CER 0.002 UF 10% 250V0CH C:FXO MICA 100PF 5%	72136 72136 56289 56289 72136	RDM15F101J3C RDM15F101J3C C067F251F202KS22-COH C067F251F20ZKS22-CDH RDM15F101J3C
C63 C64 C65 C66 C67	0160-2204 0160-2055 0160-3457 0160-3457 0160-2055		C:FXO MICA 100PF 5% C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO OISC CER 0-002 UF 10% 250VOCW C:FXO OISC CER 0-002 UF 10% 250VOCW C:FXO CER 0-01 UF +80-20% 100VOCW	72136 56289 56289 56289 56289	RDM15F101J3C C023F101F103ZS22-CDH C067F251F20ZKS22-CDH C067F251F20ZKS22-CDH C023F101F103ZS22-COH
C68 C69 C70 C71 C72	0160-2055 D160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C73 C74 C75 C76 C77	0160-2055 0160-2055 0150-0121 0160-2055 0160-2055	7	C:FXD CER 0.01 UF +80-20% 100VOCH C:FXO CER 0.01 UF +80-20% 100VDCH C:FXO CER 0.1 UF +80-20% 5DVOCH C:FXO CER 0.01 UF +80-20% 100VDCH C:FXO CER 0.01 UF +80-20% 100VOCH	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C508IS-CML C023F101F103ZS22-CDH C023F101F103ZS22-COH

Table 2-37. Card Reader Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C78 C79 C80 C81 C82	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 1D0VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C83 C84 C85 C86 C87	0160-2055 0160-2055 0160-2055 0150-0121 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.1 UF +80-20% 50VOCW C:FXD CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	CC23F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=CDH 5C508IS=CML C023F101F103ZS22=CDH
C88 C89 C90 C91 C92	0160-2055 0160-2055 0160-2055 0150-0121 0160-2055		C:FXD CER 0.01 UF +8C-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +8D-20% 100VDCW C:FXD CER 0.1 UF +8D-20% 50VDCW C:FXD CER 0.1 UF +8D-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22=CDH C023F101F103ZS22=C0H C023F101F103ZS22=CDH 5C508IS=CML C023F101F103ZS22=CDH
C93 C94 C95 C96 C97	0150-0121 0150-0121 0160-2055 0160-2055 0160-2055		C:FXD CER 0.1 UF +80-20% 50V0CW C:FXD CER 0.1 UF +80-20% 50V0CW C:FXD CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	5C5D8IS-CML 5C508IS-CML C023F101F103Z522-CDH C023F101F103Z522-CDH C023F101F103Z522-COH
C98 C99 C100 C101 C1D2 C1D6 C1D3 C1D4 C105 CR1 R1	0160-2055 0160-2055 0150-0121 0150-0121 0160-0127 0150-0121 0180-0229 0160-0127 0180-0229 1901-0081 0698-0084	2 2 1 1	C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 10DVDCW C:FXD CER 0-1 UF +80-20% 50V0CW C:FXD CER 0-1 UF +80-20% 50V0CW C:FXD CER 1-0 UF 20% 25VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXD ELECT 33 UF 10% 10VDCW C:FXD CER 1-0 UF 20% 25VDCW C:FXD ELECT 33 UF 10% 10VDCW DIO0E:SILICON 5D VOLTS WORKING R:FXD MET FLM 2-15K OHM 1% 1/8W	56289 56289 56289 56289 56289 56289 28480 56289 28480 07263 28480	C023F101F103ZS22-CDH C023F101F103ZS22-C0H 5C50B1S-CML 5C50B1S-CML 5C50B1S-CML 5C50B1S-CML 0180-0229 5C13CS-CML 0180-0229 FD1415 0698-0D84
R 2 R 3 R 4 R 5 R 6	0757-028D 0757-0442 D698-3155 0698-3155 0757-0279	3 1 5	R:FXD MET FLM 1K DHM 1% 1/8W R:FXD MET FLM 10.0K OHM 1% 1/8W R:FXD MET FLM 4.64K DHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 3.16K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0442 0698-3155 0698-3155 0757-0279
R7 R8 R9 R10 R11	D757-0279 0698-3155 D698-4421 D757-D28D 1810-D125	1	R:FXD MET FLM 3-16K OHM 1% 1/8W R:FXD MET FLM 4-64K DHM 1% 1/8W R:FXD FLM 249 DHM 1% 1/8W R:FXD MET FLM 1K DHM 1% 1/8W RESISTIVE NETWDRK:7 X 4-7K DHM 5% D-15W	28480 28480 28480 28480 28480	0757-0279 0698-3155 0698-4421 0757-0280 1810-0125
R12 R13 R14 R15 R16	1810-DD55 D757-028D 0757-0427 0698-3153 1810-0125	1 1 1	RESISTIVE NETWORK:8 ALL 1DK DHM 5% R:FXD MET FLM 1K QHM 1% 1/8W R:FXD MET FLM 1.5K DHM 1% 1/8W R:FXD MET FLM 3.83K OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W	28480 28480 2848D 28480 28480	1810-0055 0757-0280 0757-0427 0698-3153 1810-0125
R17 R18 R19 R20 R21 R23 R22 U13 U14 U21 U22 U15 U23 U24 U31 U31 U32 U33	1810-0125 0698-3155 0698-3155 1810-0125 1810-0125 1810-0125 1810-0125 1820-0720 1820-0720 1820-0721 1820-0721 1820-0174 1820-0715 1820-0721 1820-0721 1820-0721 1820-0721	2 1 11 7 7	RESISTIVE NETWDRK:7 X 4.7K OHM 5% 0.15W R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 4.64K OHM 1% 1/8W RESISTIVE NETWDRK:7 X 4.7K OHM 5% 0.15W RESISTIVE NETWDRK:7 X 4.7K OHM 5% 0.15W R:FXD MET FLM 1K OHM 1% 1/8W RESISTIVE NETWDRK:7 X 4.7K OHM 5% 0.15W IC:TIL DUAL OIFFERENTIAL LINE ORIVER 1C:TIL DUAL DIFFERENTIAL LINE DRIVER 1C:TIL DUAL DIFFERENTIAL LINE DRIVER 1C:TIL DUAL DIFFERENT. LINE RECEIVER 1C:TIL MONSTABLE MULTIVIBRATOR 1C:TIL HEX INVENTER IC:TIL LOUAL DIFFERENT. LINE RECEIVER 1C:TIL OUAL OIFFERENT. LINE RECEIVER	28480 28480 28480 28480 28480 28480 28480 28480 28480 12040 28480 D1295 D1295 D1295 12040 28480	1810-6125 0698-3155 0698-3155 1810-0125 1810-0125 0757-0280 1810-0125 1820-0720 1820-0720 1820-0720 DM882DN 1820-0720 SN7404N SN74H106N DM882DN 1820-0239
U34 U35 U36 U37 U38	1820-0715 1820-0141 1820-0141 1820-0141 1820-0844	10	IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL QUAO 2-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL OUAL 3-INPT PULSE SHAPER	01295 04713 04713 04713 04713	SN74H106N MC3D01P MC3DD1P MC3DD1P MC426P
U41 U42 U43 U44 U45	1820-0721 1820-0721 1820-0174 1820-0715 1820-0372	2	IC:TTL DUAL OIFFERENT. LINE RECEIVER IC:TTL DUAL OIFFERENT. LINE RECEIVER IC:TTL HEX INVERTER IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL TRIPLE 3-INPT AND GATE	12040 12040 01295 01295 28480	DM8820N GM882DN SN74D4N SN74H106N 1820-0372
U46 U47 U48 U51 U52	1820-0301 1820-0077 1820-0689 1820-0721 1820-0721	1 2 1	IC:TTL QUAD 81-STABLE D-LATCH IC:TTL DUAL D F/F IC IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL DIFFERENT. LINE RECEIVER	01295 01295 28480 12040 12040	SN7475N SN7474N 1820-0689 DM8820N DM882CN

Table 2-37. Card Reader Interface PCA Replaceable Parts (Continued)

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
U53 U55 U56 U57 U58	1820-0141 1820-0141 1820-0424 1820-0371 1820-0077	3 I	IC:TTL QUAD 2-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TTL HS HEX INVERTER IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL DUAL D F/F	04713 D4713 D4713 D1295 01295	NC3DG1P MC3DD1P SN74N04N SN74H1DN SN7474N
U61 U62 U63 U66 U67	1820-0721 1820-0721 1820-0054 1820-0071 1820-0141	4 2	IC:TTL DUAL OIFFERENT. LINE RECEIVER IC:TTL QUAL OIFFERENT. LINE RECEIVER IC:TTL QUAD 2—INPT NAND GATE IC:TTL DUAL 4—INPUT NANO BUFFER IC:TTL QUAD 2—INPT AND GATE	12040 12040 01295 01295 04713	DM8820N OM8820N SN7400N SN7446N MC30D1P
U68 U71 U72 U73 U75	1820-0370 1820-0721 1820-0721 1820-0610 1820-0715	I 9	IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL DIFFERENT. LINE RECEIVER IC:TTL DUAL "A-UNPT MULTIPLEXER IC:TTL DIGITAL HI-SPEEO J-K F/F	01295 12040 12040 07263 01295	SN74HCDN DM882CN DM882CN U6893D959X SN74H106N
U76 U77 U78 U81 U82	1820-090D 1820-0424 1820-0761 1820-0054 1820-0141	1	IC:TTL TRIPLE 3-INPT NOR GATE IC:TTL HS HEX INVERTER IC:TTL DIGITAL IC:TTL QUAD 2-INPT NANO GATE IC:TTL QUAD 2-INPT ANO GATE	28480 04713 28480 01295 04713	1820-09D0 SN74H04N 1820-0761 SN74D0N MC3001P
U83 U85 U86 U87 U88	1820-DD76 1820-D174 1820-D141 1820-D715 1820-0759	2	IC:TTL DUAL J-K F/F W/PRESET CLOCK IC:TTL HEX INVERTER IC:TTL QUAD 2-INPT AND GATE IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL LOW-POWER 8-81T RECEIVER	01295 01295 04713 01295 28480	SN7476N SN7404N MC3001P SN74H106N 1820—D759
U91 U92 U93 U95 U96	1820-0205 1818-2102 1820-0174 1820-0239 1820-0372	2 1	IC:TTL QUAD 2—INPT DR GATE IC:RDM IC:TTL HEX INVERTER IC:TTL QUAD 2—INPT NOR GATE IC:TTL TRIPLE 3—INPT AND GATE	2848D 2848D 01295 28480 2848D	1820-D2D5 1818-2102 SN74D4N 1820-0239 1820-D372
U97 U1D1 U1D3 U1D5 U1D6	1820-0715 1820-0084 1820-0174 1820-0054 1820-0374	2	IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL 4W 2-INPT ANO/OR GATE IC:TTL HEX INVERTER IC:TTL QUAO 2-INPT NANO GATE IC:TTL HS DUAL 4-INPT AND GATE	01295 01295 01295 01295 01295	SN74H106N SN7453N SN7404N SN7400N SN74H21N
U1D7 U111 U112 U113 U115	1820-0424 1820-0282 1820-0616 1820-0437 1820-0782	1 4 6 1	IC:TTL HS HEX INVERTER IC:TTL QUAD 2-INPT EXCL. OR GATE IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL QUAD D F/F IC:TTL TRIPLE 3-INPT NDR GATE	04713 D1295 D7263 D4713 D1295	SN74HD4N SN7486N U78932259X MC4015P SN7427N
U116 U117 U118 U121 U122	1820-0054 1820-0491 1820-0759 1820-0084 1820-0174	1	IC:TTL QUAD 2-INPT NANO GATE IC:TTL BCD/DEC. DECDDER/DRIVER IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL 4W 2-INPT ANO/OR GATE IC:TTL HEX INVERTER	01295 01295 28480 01295 01295	SN7400N SN74145N 1820—D759 SN7453N SN74D4N
U123 U125 U126 U128 U131	1820-0437 1820-0715 1820-0076 1820-0760 1820-0071	4	IC:TTL QUAD D F/F IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL DUAL J-K F/F W/PRESET CLDCK IC:TTL 8-BIT RECEIVER INVERTING IC:TTL OUAL 4-INPUT NAND SUFFER	04713 01295 01295 28480 01295	NC4D15P SN74H1D6N SN7476N 1820-076D SN744CN
U132 U133 U134 U135 U136	1820-0616 1820-0437 1820-0610 1820-0610 1820-0756	4	IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL QUAO D F/F IC:TTL DUAL 4-UNPT MULTIPLEXER IC:TTL OUAL 4-UNPT MULTIPLEXER IC:TTL OUAL 4-UNPT MULTIPLEXER IC:TTL 8-BIT ORIVER INVERTING	D7263 04713 D7263 D7263 2848D	U78932259X MC4D15P U6893D959X U6893D959X 1820—0756
U137 U138 U141 U142 U143	1820-0760 1820-0760 1820-0141 1820-0616 1820-0437		IC:TTL 8-BIT RECEIVER INVERTING IC:TTL 8-BIT RECEIVER INVERTING IC:TTL QUAD 2-INPT AND GATE IC:TTL 4-BIT 2-INPT MULTIPLEXER IC:TTL QUAD 0 F/F	28480 28480 04713 07263 04713	1820-0760 1820-076D MC30DIP U78932259X MC4015P
U144 U145 U146 U147 UI48	1820-0610 1820-0610 1820-0756 1820-0755 1820-0755	2	IC:TTL QUAL 4-UNPT MULTIPLEXER IC:TTL QUAL 4-UNPT MULTIPLEXER IC:TTL 8-81T ORIVER INVERTING IC IC	07263 07263 28480 28480 28480	U68930959X U68930959X I820-C756 I820-0755 1820-D755
U151 U152 U153 U154 U155	1820-0205 1820-0174 1820-0437 1820-0610		IC:TTL QUAD 2-INPT OR GATE IC:TTL HEX INVERTER IC:TTL QUAO 0 F/F IC:TTL OUAL 4-UNPT MULTIPLEXER IC:TTL OUAL 4-UNPT MULTIPLEXER	28480 01295 04713 07263 07263	1820-C205 SN74D4N MC4015P U68930959X U68930959X
U156 U157 U158 U161 U162	1820-0706 1820-0756 1820-0756 1820-0141 1820-0616	2	IC:DIGITAL TTL 5-8IT COMPARATOR IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT ORIVER INVERTING IC:TTL QUAD 2-INPT AND GATE IC:TTL 4-8IT 2-INPT MULTIPLEXER	D4713 2848D 2848D D4713 D7263	U78932459X 1820-D756 1820-O756 MC3DD1P U78932259X

Table 2-37. Card Reader Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U163 U164 U165 U167 U168	1820-0437 1820-0610 1820-0610 1820-0706 1820-0760		IC:TTL QUAD D F/F IC:TTL DUAL 4-UNPT MULTIPLEXER IC:TTL DUAL 4-UNPT MULTIPLEXER IC:DIGITAL TTL 5-BIT CGMPARATOR IC:TTL 8-BIT RECEIVER INVERTING	047I3 07263 07263 04713 28480	MC4015P U68930955X U68930959X U78932455X 1820-0760
₩2	8159-0005		JUMPER WIRE	2848G	8159-0005
					4

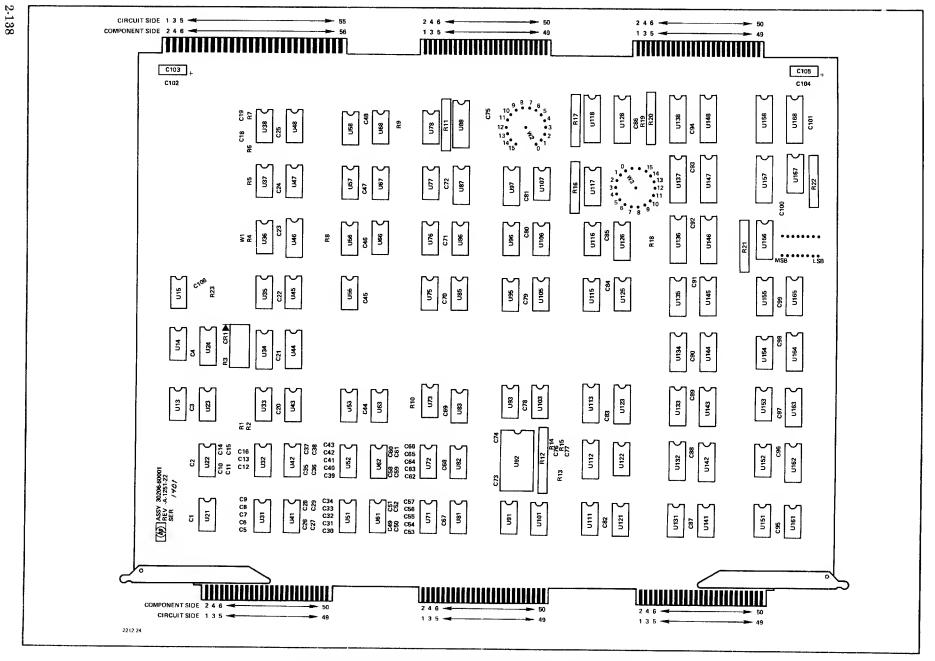


Figure 2-36. Card Reader Interface PCA, Parts Location Diagram

Table 2-38. Cartridge Disc Controller PCA Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30210-60001 0160-2204 0121-0046 0150-0121 0160-2055	1 1 1 8 64	CARTRIDGE DISC CONTROLLER PCA C:FXD MICA 10DPF 5% C:FXD CER 9-35 PF C:FXD CER 0-1 UF +80-20% 50VDCW C:FXD CER 0-01 UF +80-20% 100VOCW	28480 72136 28480 56289 56289	30210-60001 RDM15F1D1J3C 0121-D046 5C5081S-CPL C023F101F1D3ZS22-CDH
C5 C6 C7 C8 C9	0160-2055 0160-2055 0150-0121 0150-0121 0150-0121		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 10DVDCW C:FXD CER 0.1 UF +80-20% 50VOCW C:FXD CER 0.1 UF +80-20% 50VOCW C:FXD CER 0.1 UF +80-20% 50VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C5081S-CML 5C5081S-CML 5C5081S-CML
C10 C11 C12 C13 C14	0160-2055 0150-0121 0150-0121 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VDCW C:FXO CER 0.1 UF +80-20% 50VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH 5C5081S-CML 5C5081S-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C15 C16 C17 C18 C19	0180-0197 0160-0161 0160-0161 0160-0938 0160-2055	1 2 4	C:FX0 ELECT 2.2 UF 10% 2DVOCW C:FXD MY 0.01 UF 10% 2D0VOCW C:FX0 MY 0.01 UF 10% 2D0VDCW C:FXD MICA 1000 PF 5% C:FX0 CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 72136 56289	150D225X9020A2-DYS 192P10392-PTS 192P10392-PTS RDM15E102JIC C023F101F103ZS22-CDH
C20 C21 C22 C23 C24	D150-0121 D160-2055 0160-2055 0160-2055 0160-0300	1	C:FXD CER 0.1 UF +80-20% 50VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW C:FX0 MY 0.0027 UF 200VDCW	56289 56289 56289 56289 56289	5C5D81S-CML C023F1D1F103ZS22-CDH C023F1D1F103ZS22-CDH C023F101F103ZS22-CDH 192P27Z92-PTS
C25 C26 C27 C28 C30	0160-2198 0150-0121 0160-2055 0160-2202 0160-2055	2	C:FXO MICA 2D PF 5% C:FXO CER 0.1 UF +80-20% 50VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD MICA 75 PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW	72136 56289 56289 28480 56289	RDM15C200J3C 5C5081S-CML C023F101F103ZS22-CDH 0160-2202 C023F101F1D3ZS22-CDH
C31 C32 C33 C34 C35	0160-2055 0160-2202 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO M1CA 75 PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 28480 56289 56289 56289	C023F101F103ZS22-CDH 0160-2202 C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C36 C37 C38 C39 C40	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C41 C42 C43 C44 C45	0160-2055 0160-2055 0160-2055 0160-0938 0160-0938		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO MICA 1000 PF 5% C:FXO MICA 1000 PF 5%	56289 56289 56289 72136 72136	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H RDM15E102J1C RDM15E102J1C
C46 C47 C48 C49 C50	0160-0938 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD MICA 1000 PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW	72136 56289 56289 56289 56289	RDM15E102JIC C023F101F103ZS22-COH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C51 C52 C53 C54 C55	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.D1 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.D1 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-COH
C56 C57 C58 C59 C60	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C61 C62 C63 C64 C65	0160+2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	CO23F101F103ZS22~CDH C023F101F103ZS22~CDH C023F101F103ZS22~CDH C023F101F103ZS22~CDH C023F101F103ZS22~CDH
C67 C68 C69 C70	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FX0 CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	CD23F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH CD23F101F1D3ZS22-CDH
C72 C73 C74 C75 C76	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.D1 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS22=C0H

Table 2-38. Cartridge Disc Controller PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C77 C78 C79 C80 C81	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-COM C023F101F103ZS22-COM C023F101F103ZS22-COH C023F101F103ZS22-COM C023F101F103ZS22-COM
C82 C83 C84 C85 C86 C88 C87 CR1 Q1 Q2 Q3	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055 0140-0196 0160-2055 1902-0029 1854-0477 1854-0477	1 4	C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO MICA 150 PF 5% C:FXO CER 0.01 UF +80-20% 100VDCW OIO0E:8REAKOOWN 12.1V 5% 1W TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN	56289 56289 56289 56289 56289 72136 56289 28480 80131 80131	C023F101F103ZS22-COM C023F101F103ZS22-COM C023F101F103ZS22-COM C023F101F103ZS22-COM C023F101F103ZS22-COH RDM15F151J3C C023F101F103ZS22-COH 1902-0029 2N2222A 2N2222A 2N2222A
Q4 R1 R2 R3 R4	1854-0477 0757-0280 0757-0280 0757-0416 0757-0416	23 9	TSTR:S1 NPN R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 511 OMM 1% 1/8W	80131 28480 28480 28480 28480	2N2222A 0757-0280 0757-0280 0757-0280 0757-0416
R5 R6 R7 R8 R9	0698-6256 0757-0416 0698-3154 0757-0416 0757-0280	3 2	R:FXO FLM 3-16K OHM 0-1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 4-22K OHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-6256 0757-0416 0698-3154 0757-0416 0757-0280
R10 R1I R12 R13 R14	0698-3154 0757-0416 0757-0416 0757-0416 0698-3446	2	R:FXO MET FLM 4.22K OMM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 383 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3154 0757-0416 0757-0416 0757-0416 0698-3446
R15 R16 R17 R18 R19	0698-3446 0757-0280 0757-0416 0757-0280 0698-3132	10	R:FXO MET FLM 383 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO FLM 261 OMM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-3446 0757-0280 0757-0416 0757-0280 0698-3132
R20 R21 R22 R23 R24	0698-3132 0698-3132 0698-3132 0698-3132 0698-3132		R:FXO FLM 261 OHM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W R:FXO FLM 261 OMM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3132 0698-3132 0698-3132 0698-3132 0698-3132
R25 R26 R27 R28 R29	0698-3132 0698-3132 0698-3132 0698-3132 0757-0458	1	R:FXO FLM 261 OHM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3132 0698-3132 0698-3132 0698-3132 0757-0458
R30 R31 R32 R33 R34	0698-6256 0757-0438 0698-3440 0698-3447 0698-3447	1 1 10	R:FXO FLM 3-16K OMM 0-1% 1/8W R:FXO MET FLM 5-11K OMM 1% 1/8W R:FXO MET FLM 196 OMM 1% 1/8W R:FXO MET FLM 422 OMM 1% 1/8W R:FXO MET FLM 422 OMM 1% 1/8W	28480 28480 28480 28480 28480	0698-6256 0757-0438 0698-3440 0698-3447 0698-3447
R35 R36 R37 R38 R39	0698-3447 0698-3447 0698-3447 0698-3447 0698-3447		R:FXD MET FLM 422 OMM 1% 1/8W R:FXO MET FLM 422 OMM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-3447 0698-3447 0698-3447 0698-3447 0698-3447
R40 R41 R42 R43 R44	0698-3447 0698-3447 0698-3447 0757-0280 0757-0280		R:FXO MET FLM 422 OMM 1% 1/8W R:FXO MET FLM 422 OMM 1% 1/8W R:FXO MET FLM 422 OMM 1% 1/8W R:FXO MET FLM 1K OMM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-3447 0698-3447 0698-3447 0757-0280 0757-0280
R45 R46 R47 R48 R49	0698-6256 0757-1002 0757-0401 0757-0280 0757-0346	1 1	R:FXO FLM 3-16K OMM 0.1% 1/8W R:FXO MET FLM 61.9 OHM 1% 1/2W R:FXO MET FLM 10O OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 10 OMM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-6256 0757-10C2 0757-04C1 0757-0280 0757-0346
R50 R51 R52 R53 R54	0698-0084 0757-0280 0757-0403 0757-0416 0757-0290	1 1 1	R:FXO MET FLM 2-15K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 6-19K OMM 1% 1/8W	28480 28480 28480 28480 28480	0698-0084 0757-0280 0757-0403 0757-0416 0757-0290
R55 R56 R57 R58 R59	0757-0280 0757-0280 0757-0280 0757-0417 0757-0398	2 2	R:FXO MET FLM 1K OMM 1% 1/8W R:FXO MET FLM 1K OMM 1% 1/8W R:FXO MET FLM 1K OMM 1% 1/8W R:FXO MET FLM 562 OMM 1% 1/8W R:FXO MET FLM 75 OMM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0280 0757-0280 0757-0280 0757-0417 0757-0398

Table 2-38. Cartridge Disc Controller PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
R60 R61 R62 R63 R64	0757-0398 0757-0417 0757-0280 0757-0280 0757-0280		R:FXO HET FLM 75 OHM 1% 1/8W R:FXO HET FLM 562 OHM 1% 1/8W R:FXO HET FLH 1K OHM 1% 1/8W R:FXO HET FLH 1K OHM 1% 1/8W R:FXO HET FLH 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	C757-C398 O757-C417 O757-O280 O757-C280 O757-C280
R65 R66 R67 R68 R69	1810-0030 1810-0030 0757-0280 1810-0030 1810-0030	9	NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA NETWORK:7 RESISTORS 1K GHM 5% 0-15W EA R:FXO HET FLH 1K OHH 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0-15W EA NETWORK:7 RESISTORS 1K GHM 5% 0-15W EA	28480 28480 28480 28480 28480	1810-0030 1810-0030 0757-0280 1810-0030 1810-0030
R70 R71 R72 R74 R75	0757-0280 0698-3442 1810-0030 1810-0030 0757-0280	1	R:FXO HET FLH 1K OHH 1% 1/8W R:FXO MET FLH 237 OHM 1% 1/8W NETWORK:7 RESISTORS 1K CHM 5% 0.15W EA NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXO HET FLH 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0698-3442 1810-C030 1810-0030 0757-0280
R76 R77 R78 R79 R80 R84 R81 R82 R83 U14	0757-0280 1810-0030 0757-0280 0757-0280 1810-0030 0757-0403 0757-0280 1810-0030 0757-0280 1826-0047	1 10	R:FXO MET FLH 1K OHH 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXO HET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXD MET FLM 121 OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXO MET FLM 1K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXO HET FLM 1K OHM 1% 1/8W IC:PHASE LOCK LOOP F=HAX. 15HHZ IC:TTL HS HEX INVERTER	28480 28480 28480 28480 28480 28480 28480 28480 28480 28480 04713	0757-0280 1810-0030 0757-0280 0757-0280 1810-0030 0757-0403 0757-0280 1810-0030 0757-0288 NE5628 SN74H04N
U27 U28 U33 U34 U35	1820-0301 1820-0077 1820-0077 1820-0282 1820-0715	1 10 2 9	IC:TTL QUAO BI-STABLE O-LATCH IC:TTL QUAL O F/F IC:TTL QUAL O F/F IC:TTL QUAO 2-INPT EXCL. OR GATE IC:TTL DIGITAL HI-SPEEO J-K F/F	01295 01295 01295 01295 01295	SN7475N SN7474N SN7474N SN7486N SN74H1C6N
U37 U38 U43 U44 U45	1820-0141 1820-0686 1820-0515 1820-0515 1820-0370	7 1 2 7	IC:TTL QUAO 2-INPT AND GATE IC:ITL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL OUAL RE-TRIG/RE-SET HONO-MULTI IC:TTL OUAL RE-TRIG/RE-SET MONO-HULTI IC:TTL HS QUAO 2-INPT NANO GATE	04713 01295 07263 07263 01295	HC3001P SN74511N U78860259X U78960259X SN74HCON
U47 U48 U53 U55 U57	1820-0371 1820-0844 1820-0077 1820-0424 1820-0424	3 1	IC:TTL HS TRIPLE 3—INPT NANO GATE IC:TTL OUAL 3—INPT PULSE SHAPER IC:TTL OUAL D F/F IC:TTL HS HEX INVERTER IC:TTL HS HEX INVERTER	01295 04713 01295 04713 04713	SN74H10N HC426P SN7474N SN74H04N SN74H04N
U58 U61 U62 U63 U64	1820-0370 1820-0368 1820-0613 1820-0141 1820-0373	1 3 1	IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL 5-8IT SHIFT REGISTER IC:HS HEX INVERTER W/OPEN COLL. IC:TTL QUAO 2-INPT ANO GATE IC:TTL HS QUAL 4-INPT NANO GATE	01295 01295 01295 01295 04713 01295	SN74HOON SN7496N SN74HO5N HC3001P SN74H2ON
U65 U67 U68 U71 U72	1820-0616 1820-0372 1820-0141 1820-0726 1820-0613	2 4 3	IC:TTL 4-8IT 2-INPT MULTIPLEXER IC:TTL TRIPLE 3-INPT AND GATE IC:TTL QUAO 2-INPT AND GATE IC:TTL 8-8IT SHIFT REG. PAR IN/OUT IC:HS HEX INVERTER W/OPEN COLL.	07263 28480 04713 01295 01295	U78932259X 1820-0372 MC3001P SN74199 SN74H05N
U73 U74 U75 U77 U78	1820-0077 1820-0371 1820-0722 1820-0374 1820-0761	1 2 1	IC:TTL DUAL O F/F IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL OUAL LINE ORIVER IC:TTL HS DUAL 4-INPT ANO GATE IC:TTL OIGITAL	01295 01295 01295 01295 28480	SN7474N SN74H10N SN75109N SN74H21N 1820-0761
U82 U83 U84 U87 U88	1820-0613 1820-0282 1820-0755 1820-0424 1820-0141	7	IC:HS HEX INVERTER W/OPEN COLL. IC:TTL QUAO 2-INPT EXCL. OR GATE IC IC:TTL HS HEX INVERTER IC:TTL QUAO 2-INPT ANO GATE	01295 01295 28480 04713 04713	SN74H05N SN7486N 1820-0755 SN74H04N HC3001P
U91 U92 U93 U94 U95	1816~0069 1816~0064 1820~0077 1820~0715 1820~0723	1 1	IC:POM IC:ROM IC:TTL OUAL O F/F IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL OUAL LINE RECEIVER W/STROBES	28480 28480 01295 01295 01295	1816-0069 1816-0064 SN7474N SN74H106N SN75107N
U96 U97 U98 U101 U102	1820-0372 1820-0491 1820-0760 1816-0061 1816-0066	1 4 1	IC:TTL TRIPLE 3-INPT AND GATE IC:TTL BCO/OEC. OECDOER/ORIYER IC:TTL 8-BIT RECEIVER INVERTING IC:ROM IC:ROM	28480 01295 28480 28480 28480	1820-0372 SN74145N 1820-0760 1816-0061 1816-0066
U103 U104 U105 U106 U107	1820-0205 1820-0370 1820-0239 1820-0141 1820-0715	3	IC:7TL QUAO 2-INPT OR GATE IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL QUAO 2-INPT NOR GATE IC:TTL QUAO 2-INPT ANO GATE IC:TTL QUAO 2-INPT ANO GATE IC:TTL OIGI7AL HI-SPEEO J-K F/F	28480 01295 28480 04713 01295	1820-0205 SN74HC0N 1820-0239 HC3001P SN74H106N

Table 2-38. Cartridge Disc Controller PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U108 U111 U112 U113 U114	1820-0759 1816-0063 1816-0065 1820-0077 1820-0424	2 1 1	IC:TTL LCW-PCWER 8-8IT RECEIVER IC:ROM IC:ROH IC:TTL OUAL O F/F IC:TTL HS HEX INVERTER	28480 28480 28480 01295 04713	1820-C759 1816-C063 1816-C065 SN7474N SN74HC4N
U116 U117 U121 U122 U123	1820-0370 1820-0715 1816-0060 1816-0067 1820-0715	1 1	IC:TIL HS QUAO 2-INPT NANO GATE IC:TIL OIGITAL HI-SPEEO J-K F/F IC:RCM IG:RCM IG:RCH IG:TIL OIGITAL HI-SPEEO J-K F/F	01295 01295 28480 28480 01295	SN74H00N SN74H106N 1816-C06G 1816-0067 SN74H106N
U124 U125 U126 U127 U131	1820-0372 1820-0677 1820-0715 1820-0376 1816-0068	1	IC:TTL TRIPLE 3-INPT ANO GATE IC:TTL OUAL O F/F IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL HS QUAO 2-INPT NANO GATE IC:ROM	28480 01295 01295 01295 28480	1820-C372 SN7474h SN74H106N SN74H00N 1816-6068
U132 U133 U134 U135 U136	1816-0062 1820-0715 1820-0077 1820-0077 1820-0371	1	IC:RCH IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL OUAL O F/F IC:TTL DUAL O F/F IC:TTL DUAL O F/F IC:TTL HS TRIPLE 3-INPT NANO GATE	28480 01295 01295 01295 01295	1816—C062 SN74H1C6N SN7474N SN7474N SN74H1CN
U137 U138 U141 U142 U143	1820-0141 1820-0759 1820-0239 1820-0370 1820-0715		IC:TTL QUAO 2-INPT ANO GATE IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL QUAO 2-INPT NOR GATE IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL OIGITAL HI-SPEEO J-K F/F	04713 28480 28480 01295 01295	MC 3001P 1820-0759 1820-0239 SN74H00N SN74H1C6N
U144 U145 U146 U147 U151	1820-0374 1820-0205 1820-0372 1820-0370 1820-0141		IC:TTL HS OUAL 4~INPT AND GATE IC:TTL QUAO 2~INPT OR GATE IC:TTL TRIPLE 3~INPT AND GATE IC:TTL HS QUAO 2~INPT NAND GATE IC:TTL QUAO 2~INPT NAND GATE	01295 28480 28480 01295 04713	SN74H21N 1820-0205 1820-0372 SN74H00N HC3001P
U152 U153 U154 U155 U156	1820-0424 1820-0715 1820-0099 1820-0205 1820-0616	1	IC:TTL HS HEX INVERTER IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL 4-BIT BINARY COUNTER IC:TTL QUAO 2-INPT OR GATE IC:TTL 4-BIT 2-INPT MULTIPLEXER	04713 01295 01295 28480 07263	SN74H04N SN74H106N SN7493N 1820-0205 U78932259×
U157 U161 U162 U163 U165	1820-0706 1820-0608 1820-0077 1820-0726 1820-0742	2 1 5	IC:OIGITAL TIL 5-8IT COMPARATOR IC:TTL 1 OF OECOOER W/ENABLE IC:TTL OUAL 0 F/F IC:TTL 8-8IT SHIFT REG. PAR IN/OUT IC:TTL OUAL 4-8IT LATCH	04T13 04T13 01295 01295 07263	U78932459X MC4006P SN74T4N SN74199 U6N930859X
U166 U167 U168 U171 U172	1820-0742 1820-0760 1820-0760 1820-0755 1820-0424		IC:TTL QUAL 4-8IT LATCH IC:TTL 8-8IT RECEIVER INVERTING IC:TTL 8-8IT RECEIVER INVERTING IC IC:TTL HS HEX INVERTER	07263 28480 28480 28480 04713	U6N930859X 1820-0760 1820-0760 1820-0755 SN74H04N
U173 U175 U176 U177 U178	1820-0756 1820-0756 1820-0756 1820-0706 1820-0760	6	IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT ORIVER INVERTING IC:OIGITAL TTL 5-8IT COMPARATOR IC:TTL 8-8IT RECEIVER INVERTING	28480 28480 28480 04713 28480	1820-0756 1820-0756 1820-0756 078932459X 1820-0760
U182 U191 U192 U193 U195	1820-0424 1820-0742 1820-0424 1820-0726 1820-0742		IC:TTL HS HEX INVERTER IC:TTL DUAL 4-8IT LATCH IC:TTL HS HEX INVERTER IC:TTL 8-8IT SHIFT REG. PAR IN/OUT IC:TTL OUAL 4-8IT LATCH	04713 07263 04713 01295 07263	SN74HG4N U6N930859X SN74H04N SN74199 U6N930859X -
U196 U197 U198 U201 U202	1820-0742 1820-0756 1820-0755 1820-0755 1820-0424		IC:TTL DUAL 4-BIT LATCH IC:TTL 8-BIT ORIVER INVERTING IC IC IC:TTL HS HEX INVERTER	07263 28480 28480 28480 04713	U6N930859X 1820-0756 1820-0755 1820-0755 SN74H04N
U203 U205 U206 U207 U208	1820-0756 1820-0755 1820-0755 1820-0756 1820-0756	i	IC:TTL 8-BIT ORIVER INVERTING IC IC:TTL 8-BIT ORIVER INVERTING IC	28480 28480 28480 28480 28480	1820-0756 1820-0755 1820-0755 1820-0756 1820-0755

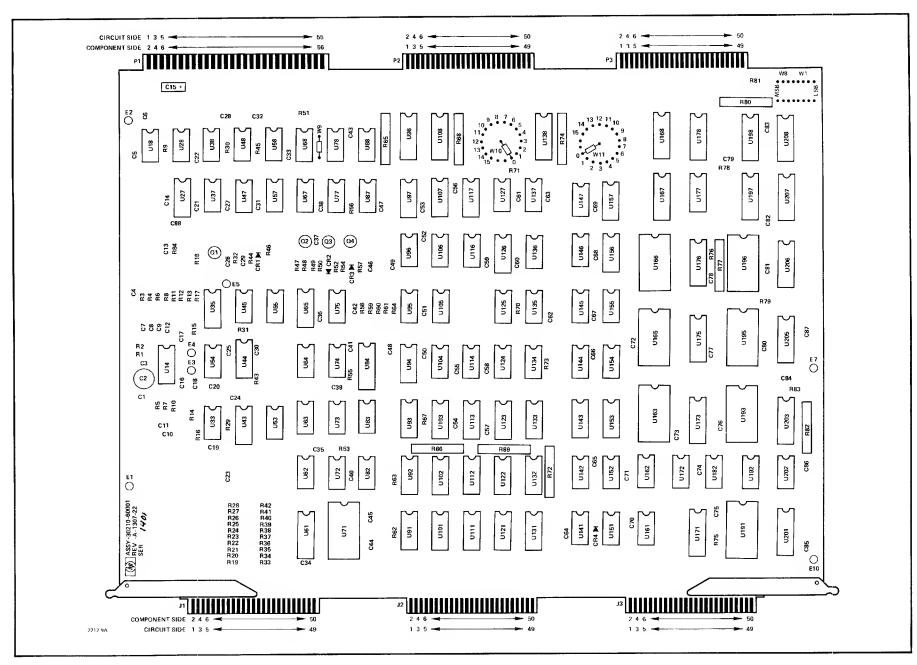


Figure 2-37. Cartridge Disc Controller PCA, Parts Location Diagram

Table 2-39. Magnetic Tape (9 Track) Controller PCA, Replaceable Parts

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30215-60001 0160-2055 0160-2055 0180-0197 0160-2055	1 98 6	MAGNETIC TAPE(9 TRACK)CONTROLLER PCA C:FXO CER 0.01 UF +80-20% 100VOCM C:FXD CER 0.01 UF +80-20% 100VOCM C:FXO ELECT 2-2 UF 10% 20VOCM C:FXO CER 0.01 UF +80-20% 100VOCM	28480 56289 56289 56289 56289	30215-60001 C023F101F103ZS22-CDH C023F101F103ZS22-COH 1500225X9020A2-0YS CC23F101F103ZS22-COH
C5 C6 C7 C8 C9	0160-2055 0160-2208 0160-2208 0180-0197 0180-0197	2	C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO MICA 330 PF 5% 300V0CW C:FXO MICA 330 PF 5% 300V0CW C:FXO ELEC7 2.2 UF 10% 20V0CW C:FXO ELEC7 2.2 UF 10% 20V0CW	56289 28480 28480 56289 56289	C023F101F103ZS22-C0H 0160-2208 0160-2208 1500225X9020A2-DYS 150D225X9020A2-OYS
C10 C11 C12 C13 C14	0160-2055 0160-2055 0160-2202 0180-0197 0160-2055	2	C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO HICA 75 PF 5% C:FXO ELECT 2.2 UF 10% 20VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 28480 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH 0160-2202 1500225X9020A2-OYS C023F101F103ZS22-C0H
C15 C16 C17 C18 C19	0160-2055 0160-2055 0160-2202 0160-2055 0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO MICA 75 PF 5% C:FXD CER 0-01 UF +80-20% 100VOCW C:FXD CER 0-01 UF +80-20% 100VDCW	56289 56289 28480 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H D160-2202 C023F101F103ZS22-C0H CD23F101F103ZS22-CDH
C20 C21 C22 C23 C24	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS2Z-C0H C023F101F103ZS2Z-C0H C023F101F103ZS2Z-C0H C023F101F103ZS2Z-C0H C023F101F103ZS2Z-C0H
C 25 C 26 C 27 C 28 C 29	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F1C1F103ZS2Z-CDH C023F101F103ZS2Z-CDH C023F101F103ZS2Z-COH C023F101F103ZS2Z-COH C023F101F103ZS2Z-COH
C30 C31 C32 C33 C34	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-COH
C35 C36 C37 C38 C39	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.D1 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.D1 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH C023F101F103ZS22-COH
C40 C41 C42 C43 C44	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER D.D1 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C45 C46 C47 C48 C49	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS2Z=CDH C023F101F103ZS2Z=COH C023F101F103ZS2Z=COH C023F101F103ZS2Z=COH C023F101F103ZS2Z=CDH
C50 C51 C52 C53 C54	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C55 C56 C57 C58 C59	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.D1 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW C:FX0 CER 0.01 UF +80-20% 100VOCW C:FX0 CER 0.01 UF +80-20% 100VOCW C:FX0 CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F1C1F103ZS22=CDH C023F1C1F103ZS22=COH C023F1C1F103ZS22=CDH C023F1C1F1C3ZS2=COH C023F1C1F1C3ZS2=COH C023F1C1F1C3ZS2=COH
C60 C61 C62 C63 C64	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FX0 CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS22=CDH C023F101F103ZS2Z=COH C023F101F103ZS22=CDH
C65 C66 C67 C68 C69	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FX0 CER 0.D1 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F1C1F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C70 C71 C72 C73 C74	0160-2055 0160-2055 0160-2055 0160-2055 016C-2055		C:FXO CER 0.01 UF +80-20% 10DV0CW C:FXD CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289 56289	C023F101F103ZS22=CDH C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS22=CDH

Table 2-39. Magnetic Tape (9 Track) Controller PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C75	0160-2055	2	C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C76	0160-2055		C:FX0 CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C77	0140-0208		C:FX0 MICA 680 PF 5%	72136	R0M15F681J3C
C78	0140-0208		C:FX0 MICA 680 PF 5%	72136	R0M15F681J3C
C79	0160-2055		C:FX0 CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C80	0160-2055		C:FXO CER 0-01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-CDH
C81	0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C82	0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-COH
C83	0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-COH
C84	0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-COH
C85	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103Z522-C0H
C86	0160-2055		C:FX0 CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103Z522-C0H
C87	0160-2055		C:FX0 CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103Z522-C0H
C88	0160-2055		C:FX0 CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103Z522-C0H
C89	0160-2055		C:FX0 CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103Z522-C0H
C90	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCH	56289	C023F101F103ZS22-C0H
C91	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCH	56289	C023F101F103ZS22-C0H
C92	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCH	56289	C023F101F103ZS22-C0H
C93	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCH	56289	CD23F101F103ZS22-C0H
C94	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCH	56289	CD23F101F103ZS22-CDH
C95	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22=CDH
C96	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22=CDH
C97	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22=COH
C98	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22=COH
C99	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22=COH
C100 C101 C102 C103 C104	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0-01 UF +80-20% 100VOCW C:FXO CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-COH C023F101F103ZS22-CDH
C105	0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C106	0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-COH
C107	0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C108	0160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C109	0180-0197		C:FXO ELECT 2-2 UF 10% 20VDCW	56289	1500225X9D20A2-DYS
C11D	0180-0197	2	C:FXO ELECT 2.2 UF 10% 20V0CW	56289	1500225X9C2DA2-OYS
CR1	1901-0049		0100E:SILICOM 50PIV	28480	1901-0049
CR2	1901-0049		0100E:SILICOM 50PIV	28480	1901-0049
CR3	1901-0081		0100E:SILICOM 50 YOLTS WORKING	07263	F01415
CR4	1901-0081		0100E:SILICOM 50 YOLTS WORKING	07263	F01415
CR 5 CR 6 CR 7 CR 8 CR 9	1901-0081 1901-0081 1901-0081 1901-0081 1901-0081		OIOOE:SILICOM 50 VOLTS WORKING OIOOE:SILICON 50 VOLTS WORKING DIOOE:SILICON 50 VOLTS WORKING DIOOE:SILICON 50 VOLTS WORKING OIOOE:SILICON 50 VOLTS WORKING	07263 07263 07263 07263 07263	F01415 F01415 F01415 F01415 F01415
CR10	1901-0081	6	OIOOE:SILICON 50 VOLTS WORKIMG	07263	F01415
01	1854-0477		TSTR:SI NPN	80131	2M2222A
02	1854-0477		TSTR:SI NPN	80131	2M2222A
03	1854-0477		TSTR:SI NPN	80131	2M2222A
04	1854-0477		TSTR:SI NPM	80131	2M2222A
05 06 R1 R2 R3	1854-0477 1854-0477 0757-0280 0757-0442 0757-0442	22 8	TSTR:SI NPN TSTR:SI NPM R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W	80131 80131 28480 28480 28480	2N2222A 2N2222A 0757-0280 0757-0442 0757-0442
R4 R5 R6 R7 R8	0698-3445 0757-0280 0757-0280 0757-0279 0698-0084	1 2 1	R:FXO MET FLM 348 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 3-16K OHM 1% 1/8W R:FXO MET FLM 2-15K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3445 0757-C280 0757-C280 0757-C279 0698-0084
R9 R10 R11 R12 R13	0757-0280 0757-0346 0757-0401 0757-0280 0757-0280	1 1	R:FXD MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1O OHM 1% 1/8W R:FXD MET FLM 1OO OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W	2848 D 2848 D 2848 D 2848 D 2848 O	0757-0280 0757-0346 0757-0401 0757-0280 0757-0280
R14	0757-0280		R:FXO MET FLM 1K DHM 1% 1/8W	28480	0757-C280
R15	0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W	28480	0757-0280
R16	0757-0279		R:FXO MET FLM 3-16K OHM 1% 1/8W	28480	0757-C279
R17	0757-0442		R:FXO MET FLM 10-0K OHM 1% 1/8W	28480	0757-C442
R18	0757-0442		R:FXO MET FLM 10-0K OHM 1% 1/8W	28480	0757-0442
R19	0757-0442	3	R:FXO MET FLM 10.0K OHM 1% 1/8W	28480	0757-C442
R20	0757-0442		R:FXO MET FLM 10.0K OHM 1% 1/8W	28480	0757-0442
R21	1810-0045		RESISTOR PACK:7 RES. 200 OHM 5% 0.15W	28480	1810-0045
R22	0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W	28480	0757-C280
R23	0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W	28480	0757-0280

Table 2-39. Magnetic Tape (9 Track) Controller PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Numbe
R24 R25 R26 R27 R28	0757-0280 0T57-0280 1810-0045 1810-0045 0T57-0280		R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W RESISTOR PACK:7 RES. 200 OHM 5% 0.15W RESISTOR PACK:7 RES. 200 OHM 5% 0.15W R:FXD MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0T5T-0280 075T-0280 1810-0045 1810-0045 0T57-0280
R29 R30 R31 R32 R33	1810-0125 1810-0125 0757-0280 0757-0280 1810-0125	6	RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W R:FXO MET FLM IK OHM 1% 1/8W R:FXO MET FLM IK OHM 1% 1/8W RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W	28480 28480 28480 28480 28480	1810-0125 1810-0125 075T-0280 0757-0280 1810-0125
R34 R35 R36 R3T R38	1810-0125 0757-0280 0757-0280 0698-3132 1810-0125	1	RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO FLM 261 OHM 1% 1/8W RESISTIVE NETWORK:T X 4.7K OHM 5% 0.15W	28480 28480 28480 28480 28480	1810-0125 0757-0280 0757-0280 0698-3132 1810-0125
R 39 R40 R41 R42 R43	1810-0030 1810-0125 0157-0280 0157-0280 0157-0442	4	NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA RESISTIVE NETWORK:T X 4.7K OHM 5% 0.15W R:FXO MET FLM 1K OHM 1% 1/6W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W	28480 28480 28480 28480 28480	1810-0030 1810-0125 0T57-0280 075T-0280 075T-0442
R44 R45 R46 R47 R48	075T-0442 1810-0030 0757-0280 1810-0030 075T-0280		R:FXO MET FLM 10.0K OHM 1% 1/8W NETWORK:T RESISTORS 1K OHM 5% 0.15W EA R:FXO MET FLM 1K OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0T5T-0442 1810-0030 0T5T-0280 1810-0030 0T5T-0280
R49 R50 R51 U11 U13	0757-0280 0598-3440 1810-0030 1820-0755 1820-0756	1 6 11	R:FXO MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 196 OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA IC IC:TTL 8-8IT ORIVER INVERTING	28480 28480 28480 28480 28480	0757-0280 0598-3440 1810-0030 1820-0755 1820-0756
U14 U15 U16 U1T U21	1820-0141 <i>0372</i> 1820-0424 1820-0900 1820-0724 1820-0742	8 8 1 3 6	TC:PTL QUAO 2-INPT ANO GATE IC:TTL QUAO 2-INPT ANO GATE IC:TTL HS HEX INVERTER IC:TTL TRIPLE 3-INPT NOR GATE IC:TTL OUAL 2-4 OECOOER W/ENA8LE IC:TTL OUAL 4-8IT LATCH	28450 04713 04713 28480 04713 07263	/ \$20-0372 MC3001P SN74H04N 1820-0900 MC4007P U6N930859X
U22 U23 U24 U25 U26	1820-0515 1820-0756 1820-0626 1820-0844 1820-0017	2 1 1 4	IC:TTL DUAL RE-TRIG/RE-SET MOND-MULTI IC:TTL 8-BIT ORIVER INVERTING IC:TTL 4-BIT LATCH IC:TTL OUAL 3-INPT PULSE SHAPER IC:TTL OUAL 0-F/F	07263 28480 07263 04713 01295	U78960259X 1820-0756 U78931459X MC426P SNT4T4N
U2T U31 U32 U33 U34	1820-0613 1820-0435 1820-0435 1820-0756 1820-0424	2 2	IC:HS HEX INVERTER W/OPEN COLL. IC:TTL 8-BIT 000/EVEN GEN./CHECKER IC:TTL 8-BIT 000/EVEN GEN./CHECKER IC:TTL 8-BIT ORIVER INVERTING IC:TTL HS HEX INVERTER	01295 01295 01295 01295 28480 04713	SNT4H05N SNT4180N SNT4180N 1820-0756 SNT4H04N
U35 U36 U37 U42 U44 <i>U41</i> U45 U46 U47 U51	1820-0686 1820-0372 1820-0141 1816-0251 1820-0378 /\$20-07/53- 1820-0141 1820-0424 1820-0491 1816-0220 1816-0206	1 2 1 1 1 1	IC:TTL SCHOTTKY TRIPLE 3-INPT AND GATE IC:TTL TRIPLE 3-INPT AND GATE IC:TTL QUAD 2-INPT AND GATE IC:TCM IC:TTL HS 2-HIDE 2-INPT IC:TL S BIT DRIVER IC:TTL QUAD 2-INPT AND GATE IC:TTL GUAD 2-INPT AND GATE IC:TTL HS HEX INVERTER IC:TTL BCO/OEC. OECOOER/DRIVER IC:ROM	01295 28480 04113 28480 01295 ラポーダン 04113 04713 01295 28480	SN74S11N 1820-0372 MC3001P 1816-0251 SN74H51N /F20~7755 MC3001P SN74H04N SN74145N 1816-0220
U53 U54 U55 U56 U5T	1820-1105 1820-0141 1820-00TT 1820-0374 1820-0760	1 4	IC: IC:TTL QUAO 2—INPT ANO GATE IC:TTL OUAL D F/F IC:TTL HS DUAL 4—INPT ANO GATE IC:TTL 8-8IT RECEIVER INVERTING	28480 04713 01295 01295 28480	1820-1105 MC3001P SNT474N SN74H21N 1820-0T60
U61 U62 U63 U64 U65	1816-0222 1816-0229 1820-03T2 1820-0424 1820-0141	1	IC:ROM IC:ROM IC:TTL TRIPLE 3—INPT ANO GATE IC:TTL HS HEX INVERTER IC:TTL QUAD 2—INPT ANO GATE	28480 28480 28480 04T13 04713	1816-0222 1816-0229 1820-03T2 SN74H04N MC3001P
U66 U67 U71 U72 U73	1820-03T0 1820-0761 1816-0223 1816-0253 1810-0037	4 1 1 1 3	IC:TTL HS QUAD 2-INPT NANO GATE IC:TTL OIGITAL IC:ROM IC:ROM RESISTOR ARRAY:1K OHM 2% IW EACH	01295 28480 28480 28480 28480	SNT4H00N 1820-0761 1816-0223 1816-0253 1810-0037
U74 U75 U76 UT7 U81	1820-0715 1820-0424 1820-0371 1820-0424 1816-0252	16 2 1	IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL HS HEX INVERTER IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS HEX INVERTER IC:ROM	01295 04713 01295 04713 28480	SNT4H106N SN74H04N SN74H10N SN74H04N 18160252

Table 2-39. Magnetic Tape (9 Track) Controller PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U82 U83 U84 U85 U86	1816-0212 1820-0077 1820-0715 1820-0741 1820-0715	1	IC:RDM IC:TTL DUAL D F/F IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL QUAD 2-INPT AND GATE IC:TTL DIGITAL HI-SPEED J-K F/F	28480 01295 01295 04713 01295	1816-D212 SN7474N SN74H106N MC3D01P SN74H106N
U87 U91 U92 U93 U94	1820-0759 1820-0755 1816-0226 1810-0037 1820-0715	2	IC:TTL LOM-PDWER 8-8IT RECEIVER IC IC:ROM RESISTDR ARRAY:1K OHM 2% 1W EACH IC:TT4 DIGITAL HI-SPEED J-K F/F	2848D 2848G 2848D 2848D 28480 D1295	1820-0759 1820-0755 1816-0226 1810-0037 SN74H106N
U95 U96 U97 U1D1 U1O2	1820-0371 1820-0715 1820-0759 1816-0214 1816-0215	1 1	IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL DIGITAL H1-SPEED J-K F/F IC:TTL LOW-POWER 8-BIT RECEIVER IC:RDM IC:RDM	D1295 01295 2848D 28480 28480	SN74H10N SN74H106N 1820-0759 1816-0214 1816-0215
U103 U104 U105 U111 U112	1820-0724 1820-0613 1820-0370 1816-0218 1816-0203	1 1	IC:TTL DUAL 2-4 DECDDER W/ENABLE IC:HS HEX INVERTER W/DPEN COLL. IC:TTL HS QUAD 2-INPT NAND GATE IC:RDM	04713 01295 01295 28480	MC4007P SN74H05N SN74H00N 1816-G218
U113 U114 U116 U121 U122	1816-0219 1820-0077 1820-0756 1820-0424 1810-0037	1	IC:ROM IC:TTL DUAL D F/F IC:TTL 8-81T DRIVER INVERTING IC:TTL HS HEX INVERTER RESISTOR ARRAY:1K OHM 2% IN EACH	2848D 01295 28480 04713 28480	1816-0219 SN7474N 1820-0756 SN74H04N 1810-0037
U123 U124 U125 U126 U127	1820-037D 1820-0424 1820-0756 1820-0706 1820-0760	2	IC:TTL HS QUAO 2-INPT NAND GATE IC:TTL HS HEX INVERTER IC:TTL 8-81T DRIVER INVERTING IC:OIGITAL TTL 5-81T COMPARATOR IC:TTL 8-81T RECEIVER INVERTING	01295 04713 28480 04713 28480	SN 74HDON SN 74HD4N 1820-0756 U789324-59X 1820-076D
U131 U132 U133 U134 U135	1820-0141 1820-0756 1820-0661 1820-0370 1820-0742	1	IC:TTL QUAD 2-INPT AND GATE IC:TTL 8-8IT DRIVER INVERTING IC:TTL QUAD 2-INPT DR GATE IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL DUAL 4-8IT LATCH	04713 28480 D1295 D1295 D7263	MC3001P 1820-0756 SN7432N SN74HDDN U6N93D859X
U136 U137 U141 U142 U143	1820+0706 1820-0756 1820-0141 1820-0715 1820-0515		IC:DIGITAL TTL 5—8IT COMPARATOR IC:TTL 8—8IT DRIVER INVERTING IC:TTL QUAD 2—INPT AND GATE IC:TTL DIGITAL HI—5PEED J—K F/F IC:TTL DUAL RE—TRIG/RE—SET MONO—MULTI	D4713 28480 D4713 01295 07263	U78932459X 1820—0756 MC3001P SN74H1 D6N U78960259X
U144 U146 U147 U151 U152	1820-0756 1820-0760 1820-0760 1820-0715 1820-0715		IC:TTL 8-81T DRIVER INVERTING IC:TTL 8-81T RECEIVER INVERTING IC:TTL 8-81T RECEIVER INVERTING IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL DIGITAL HI-SPEED J-K F/F	28480 28480 28480 01295 01295	1820–0756 1820–076D 1820–0760 SN74H106N SN74H106N
U153 U154 U156 U157 U161	1820-0715 1820-0724 1820-0755 1820-0755 1820-0715		IC:TTL DIGITAL H1-SPEED J-K F/F IC:TTL DUAL 2-4 DECODER W/ENABLE IC IC IC:TTL DIGITAL HI-SPEED J-K F/F	D1295 D4713 2848D 2848D D1295	SN74H106N MC4D07P 1820—D755 1820—D755 SN74H106N
U162 U163 U165 U166 U167	1820-0715 1820-0657 1820-0742 1820-0756 1820-0756	1	IC:TTL DIGITAL HI-SPEED J-K F/F IC:DIGITAL TTL 8-INPT PRIDRITY ENCODER IC:TTL DUAL 4-81T LATCH IC:TTL 8-81T DRIVER INVERTING IC:TTL 8-81T DRIVER INVERTING	01295 D7263 D7263 2848D 28480	SN74H106N U78931859X U6N93D859X 1820-0756 1820-0756
U171 U172 U173 U174 U176	1820-0715 1820-0715 1820-0715 1820-0756 1820-0755		IC:TTL DIGITAL H1-SPEED J-K F/F IC:TTL DIGITAL H1-SPEED J-K F/F IC:TTL DIGITAL H1-SPEED J-K F/F IC:TTL 8-81T DRIVER INVERTING IC	D1295 D1295 O1295 2848D 2848D	SN74H1D6N SN74H1D6N SN74H106N 1820-0756 1820-0755
U177 U181 U182 U184 U186	1820-0755 1820-0715 1820-0715 1820-0742 1820-0742		IC IC:TTL DIGITAL H1-SPEED J-K F/F IC:TTL DIGITAL HI-SPEED J-K F/F IC:TTL DUAL 4-8IT LATCH IC:TTL DUAL 4-8IT LATCH	28480 01295 01295 01295 07263 07263	1820-0755 SN74H106N SN74H106N U6N930859X U6N930859X
W2	8159-0005	:	JUMPER WIRE	28480	815 9- 0005

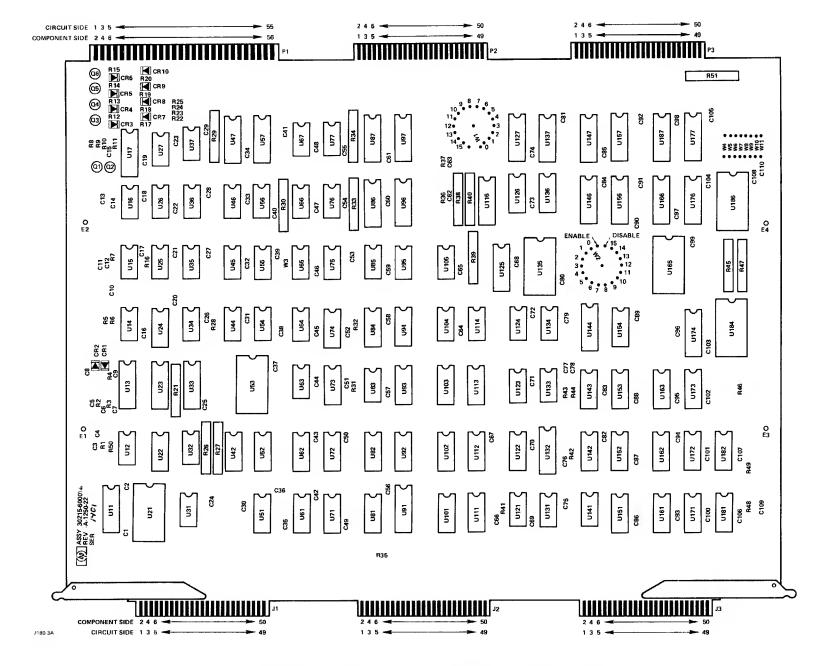


Figure 2-38. Magnetic Tape (9 Track) Controller PCA, Parts Location Diagram

Table 2-40. Magnetic Tape Controller Processor PCA. Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4 C5	30215-60002 0160-2101 0160-2055 0160-2055 0160-2055 0160-2055	1 7	MAGNETIC TAPE CONTROLLER PROCESSOR PCA C:FXO MICA 27PF 2% 300VOCW C:FXO CFR 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +8U-20% 100VOCW	28480 72136 56289 56289 56289 56289	30215-60002 ROM15E270G3C C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-COH C023F101F103ZS22-COH
C6 C7 C8 C9 C10	0163-2055 0160-2055 0160-2055 0180-0197 0180-0197	2	C:FXO CER 0.01 UF +80-20% 100VOCH C:FXO CER 0.01 UF +80-20% 100VOCH C:FXO CER 0.01 UF +80-20% 100VOCH C:FXO ELECT 2.2 UF 10% 20VOCH C:FXO ELECT 2.2 UF 10% 20VOCH	56289 56289 56289 56285 56289	C023F101F103ZS22-C0H C022F101F103ZS22-C0H C023F101F103ZS22-C0H 150022SX9020A2-OYS 1500225X5020A2-OYS
C11 C12 C16 C17	0160-2140 0160-2140 0160-2055	2 4	C:FXO CER 470 PF +80-20% 1000VOCW C:FXO CER 470 PF +80-20% 1000VOCW C:FXO CER 0.01 UF +80-20% 100VOCW THRU C:FXO CER 1000 PF +80-20% 1000VOCW	91418 91418 56289 50289	TYPE B TYPE B C023F101F103ZS22-COH C0678I02E102ZS26-COH
C18 C80 C91 CR1 G1 R1 R2	0150-0050 0160-2055 1901-0040 1850-0158 0698-3444 1810-0030	1 1 1 5	THRU C:FXO CER 0.01 UF +80-20% 100VOCW 0100E:SILICON 50 MA 30 WV TSTR:GE PNP R:FXO MET FLM 316 OHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA	56289 U7263 80131 28480 28480	C023F101F103ZS22-CDH F0G1088 2N2635 0698-3444 1810-0030
R 3 R4 R5 R6 R7	0698-3441 0757-0280 0698-4037 0757-0280 0757-0280	1 11 1	R:FXO MET FLM 215 OHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 46.4 OHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MFT FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3441 0757-0260 0698-4037 0757-0280
R8 R9 R10 R11 R12	0757-0280 0757-0280 0757-0280 1810-0330 1810-0030		R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/9W R:FXO MET FLM 1K CHM 1% 1/9W NETWORK:7 RESISTORS 1K CHM 5% 0.15W EA NETWORK:7 RFSISTORS 1K CHM 5% 0.15W EA	28480 28480 28480 28480 28480	0757-0280 0757-0280 0757-0280 1810-0030 1810-0030
R13 R14 R15 R16 R17	0757-0280 0757-0280 0757-0280 1810-0030 0757-0280		R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W R:FXD MET FLM 1K CHM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA R:FXO MET FLM 1K OHM 1% 1/8W	28 480 26 480 28 480 28 480 28 480 28 480	0757-0280 0757-0280 0757-0280 1810-0030 0757-0280
R18 R19 R20 U11 U14 R21 U15 U16 U17 U18	1810-0030 0757-0280 0757-0401 1820-0377 1820-0786 0757-0280 1820-0624 1820-0538 1820-0512 1820-0512	1 2 7 3 1 3 6	NETHORK:7 RESISTORS 1K OHM 5% 0.15W EA RIFXO MET FLM 1K OHM 1% 1/8W RIFXD MET FLM 100 OHM 1% 1/8W IC:TTL HS OUAL 2-WIGE 2-1NPT IC:TTL HEX O-TYPF FLIP/FLGP WITH CLEAR RIFXD MET FLM 1K OHM 1% 1/8W IC:TTL HS HEX INVERTER IC:TTL OUAD 2-INPT NAND 8UFFFR IC:TTL HS DUAL O F/F(35 MHZ MIN.) IC:TTL QUAD 2-INPT OR GATE IC:TTL QUAD 2-INPT NOR GATE	2848U 28480 01295 01295 28480 04713 U1295 01295 28480 28480	1810-0030 0757-0280 0757-0401 SN74H50N SN35431 0757-0280 SN74H04N SN7437N SN7437N SN74H74N 1820-0205 1820-0229
U21 U24 U25 U26 U27	1820-0142 1820-0371 1820-0370 1820-0376 1620-0424	1 5 1 3	INTEGRATED CIRCUIT:4INPUT.2-OR/NOR IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS OUAO 2-INPT NAND GATE IC:TTL HS OUAL 4-INPT NAND SUFFER IC:TTL HS HEX INVERTER	04713 01295 01295 01295 01295 04713	MC1004P SN74H10N SN74H00N SN74H40N SN74H04N
U28 U29 U31 U32 U33	1820-0376 1820-0535 1820-0379 1820-0379 1820-0379	1 12	IC:TTL HS OUAL 4-INPT NANC BUFFER 1C:TTL OUAL PERI.2-INPT AND ORIVFR IC:TTL HS 4W 2-2-2-3 INPT ANC/OR GATE 1C:TTL HS 4W 2-2-2-3 INPT ANC/OR GATE 1C:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE	01295 01295 01295 01295 01295	SN 74H40N SN 75451P SN 74H52N SN 74H52N SN 74H52N
U34 U35 U36 U37 U38	1820-0140 1820-0384 1820-0371 1820-0141 1820-0140	1	IC:TTL OUAL 4-INPT AND SUFFER IC:TTL HS TRIPLE 3-INPT EXPANDER IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL OUAD 2-INPT AND GATE IC:TTL OUAL 4-INPT AND SUFFER	04713 01295 01295 04713 04713	MC 3026P SN74H61N SN74H10N MC 3001P MC 3026P
U39 U41 U42 U43 U44	1820-3512 1820-0379 1820-0379 1820-0379 1820-0340		IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE IC:TTL OUAL 4-INPT ANO BUFFFR	01295 01295 01295 01295 01295 04713	SN 7 4 H 7 4 N SN 7 4 H 5 Z N SN 7 4 H 5 Z N SN 7 4 H 5 Z N MC 3 O 2 6 P
U45 U47 U48 U49 U59	1820-0495 1820-0495 1820-0372 1820-0377 1820-0371	3	IC:TTL 1 OF 16 OECUDER IC:TTL 1 OF 16 OECODER IC:TTL TRIPLE 3-INPT ANO GATE IC:TTL HS OUAL 2-WIOE 2-INPT IC:TTL HS TRIPLE 3-INPT NAND GATE	01295 01295 28480 01295 01295	SN 74154N SN 74154N 1820-03 72 SN 74H5 ON SN 74H1 UN
U61 U62 U63 U64 U65	1820-0379 1820-0379 1820-0379 1820-0424 1820-0371		IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE 1C:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE 1C:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE IC:TTL HS HEX INVERTER IC:TTL HS TRIPLE 3-INPT NAND GATE	01295 01295 01295 01295 04713 01295	SN 74H52N SN 74H52N SN 74H52N SN 74H04N SN 74H10N
			1		

Table 2-40. Magnetic Tape Controller Processor PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U66 U67 U68 U69 U71	1820-0372 1820-0375 1820-0205 1820-0376 1820-0379	1	IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HS 8-INPT NANO GATE IC:TTL GUAD 2-INPT DR GATE IC:TTL HS DUAL 4-INPT NAND 8UFFER IC:TTL HS 4W 2-2-2-3 INPT AND/OR GATE	28480 01295 28480 01295 01295	1820-0572 SN74H30N 1820-0205 SN74H40N SN74H52N
U72 U73 U74 U75 U76	1820-0379 1820-0379 1820-0512 1820-0788 1820-0759	21	IC:TTL HS 4W 2-2-2-3 INPT ANO/OR GATE IC:TTL HS 4W 2-2-2-3 INPT ANC/OR GATE IC:TTL HS DUAL D F/F135 MH MIN.) IC:TTL HEX D-TYPE FLIP/FLOP WITH CLEAR IC:TTL LOW-PDWER 8-81T RECEIVER	01295 01295 01295 01295 28480	SN74H52N SN74H52N SN74H74N SN35431 1820-0759
U77 U78 U79 U81 U82	1820-0205 1820-0282 1820-0140 1820-0788 1820-0759	1	IC:TIL OUAO 2-INPT OR GATE IC:TIL OUAO 2-INPT EXCL. OR GATE IC:TIL OUAL 4-INPT AND SUFFER IC:TIL HEX O-TYPE FLIP/FLGP WITH CLEAR IC:TIL LOW-POWER 8-81T RECEIVER	28480 01295 04713 01295 28480	1820-0205 SN7486N MC3026P SN35431 1820-0759
U84 U85 U86 U87 U88	1820-0759 1820-0371 1820-0843 1820-0843 1820-0205	3	IC:TTL LOW-POWER 8-81T RECEIVER IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL DUAL OATA OISTRIBUTOR IC:TTL OUAL OATA OISTRIBUTOR IC:TTL OUAD 2-INPT OR GATE	28480 01295 04713 04713 28480	1820-0759 SN74H10N MC4002P MC4002P 1820-0205
U89 U91 U92 US3 U94	1820-0372 1820-0788 1820-0788 1820-0788 1820-0759		IC:TTL TRIPLE 3-INPT AND GATE IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL LOW-POWER 8-81T RECEIVER	28480 01295 01295 01295 28480	1820-0372 \$N35431 \$N35431 \$N35431 \$1820-0759
U95 U96 U97 U98 U99	1820-0843 1820-0788 1820-0205 1820-0759 1620-0608	1	IC:TTL OUAL OATA OISTRIBUTOR IC:TTL HEX O-TYPE FLIP/FLOP WITH CLEAR IC:TTL OUAD 2-INPT DR GATE IC:TTL LOW-POMER 8-BIT RECEIVER IC:TTL 1 OF DECODER W/ENABLE	04713 01 295 28480 28480 04713	MC 4002P SN35431 1820-0205 1820-0759 MC 4006P
U101 U103 U104 U105 U107	1820-0545 1820-0742 1820-0759 1820-0755 1820-0742	7 14 8	IC:TTL SYNC 4-8IT UP-DOWN COUNTER IC:TTL DUAL 4-8IT LATCH IC:TTL LOW-POWER 8-8IT RECEIVER IC IC IC:TTL OUAL 4-8IT LATCH	01295 07263 28480 28480 07263	SN74191N U6N930859X 1820-0759 1820-0755 U6N930859X
0106 0109 0111 0414 0115	1820-0759 1820-0742 1820-0545 1840-0759 1820-0755		IC:TTL LGW-POWER 8-81T RECEIVER IC:TTL GUAL 4-81T LATCH IC:TTL SYNC 4-81T UP-DOWN COUNTER IC:TTL LDW-POWER 8-81T RECEIVER IC	28480 07263 01295 28480 28480	1820-0759 U6N930859X SN74191N 1820-0759 1820-0755
U118 U121 U123 U127 U129	1820-0759 1820-0545 1820-0742 1820-0606 1820-0742	4	IC:TTL LOW-POWER 8-81T RECEIVER IC:TTL SYNC 4-81T UP-DOWN COUNTER IC:TTL OUAL 4-81T LATCH IC:TTL ARITH. LOGIC UNIT/FUNCTION GEN. IC:TTL OUAL 4-81T LATCH	28480 01295 07263 01295 07263	1820-0759 SN74191N U6N930859X SN74181N U6N930859X
U131 UI34 U135 U137 U136	1820-0205 1820-0759 1823-0755 1820-0606 1820-0759		IC:TTL QUAO 2-INPT OR GATE IC:TTL LOW-PUWER 8-8IT RECEIVER IC IC:TTL ARITH. LOGIC UNIT/FUNCTION GEN. IC:TTL LOW-POWER B-8IT RECEIVER	28480 28480 28480 01295 28480	1820-0205 1820-0759 1820-0755 SN 74181N 1820-0759
U141 U143 U144 U145 U147	1820-0640 1820-0742 1820-0759 1820-0755 1820-0611	1	IC:TTL OATA SELECTOR/MULTIPLEXER IC:TTL OUAL 4-81T LATCH IC:TTL LOW-POWER 8-BIT RECEIVER IC IC:TTL LOOK-AHEAD CARRY GENERATOR	01295 07263 28480 28480 01295	SN74150N U6N930859X 1820-0759 1820-0755 SN74182N
U14E U149 U151 U153 U154	1820-0759 1820-0742 1820-0545 1820-0742 1820-0759		IC:TTL LOW-PDWER 8-81T RECEIVER IC:TTL DUAL 4-81T LATCH IC:TTL SYNC 4-81T UP-OOWN CDUNTER IC:TTL OUAL 4-81T LATCH IC:TTL LOW-POWER 8-81T RECEIVER	28480 07263 01295 07263 28480	1820-0759 U6N930859X SN74191N U6N930859X 1820-0759
U155 U158 U159 U161 U164	1820-0755 1820-0759 1820-0742 1820-0545 1820-0759		IC IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL OUAL 4-8IT LATCH IC:TTL SYMC 4-8IT UP-OOWN COUNTER IC:TTL LOW-POWER 8-BIT RECEIVER	28480 28480 07263 01295 28480	1820-0755 1820-0759 U6N930859X SN74191N 1820-0759
U165 U167 U168 U171 U173	1820-0755 1820-0606 1820-0759 1820-0374 1820-0742	1	IC IC:TTL ARITH. LOGIO UNIT/FUNCTION GEN. IC:TTL LOW-POWER 8-81T RECEIVER IC:TTL HS OUAL 4-INPT AND GATE IC:TTL DUAL 4-BIT LATCH	28480 01295 28480 01295 07263	1820-0755 SN74181N 1820-0759 SN74H2IN UAN930859X
U177 U179 U181 U184 U185	1820-0606 1820-0742 1820-0545 1820-0759 1820-0755		IC:TTL ARITH. LÜGIC UNIT/FUNCTION GEN. IC:TTL OUAL 4-8IT LATCH IC:TTL SYNC 4-BIT UP-DOWN COUNTER IC:TTL LÖW-POWER 8-BIT RECEIVER IC	01295 07263 01295 28480 28480	SN74181N U6N930859X SN74191N 1820-0759 1820-0755

Table 2-40. Magnetic Tape Controller Processor PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U186 U191 U193 U194 U195 U197 U196 U199	1820-0759 1820-0545 1820-0742 1820-0759 1820-0755 1820-0755 1820-0759 1820-0759 1820-0742 0410-0475		IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL SYNC 4-8IT UP-DOWN COUNTER IC:TTL DUAL 4-8IT LATCH IC:TTL LOW-POWER 8-8IT RECEIVER IC IC:TTL DUAL 4-BIT LATCH IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL DUAL 4-8IT LATCH CRYSTAL:OUARTZ	28480 01295 07263 28480 28460 07263 28480 07263 28480 28480	1820-0759 SN74191N UGN930859X 1820-0759 1820-0755 UGN930859X 1820-0755 UGN930859X 0410-0475 0410-0475

Table 2-41. Magnetic Tape (7 Track) Controller PCA, Replaceable Parts

To Be Supplied

Figure 2-40. Magnetic Tape (7 Track) Controller PCA, Parts Location Diagram

To Be Supplied

Table 2-42. Control Panel Interface PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30 350-60006 0180-0229 0160-2055 0160-2055 0160-2055	1 4 80	CONTROL PANEL INTERFACE PCA C:FXO ELECT 33 UF 10% 10VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF. +80-20% 100VOCW	28480 28480 56289 56289 56289	30350-60006 0180-0229 C023F101F103Z522-C0H C023F101F103Z522-C0H C023F101F103Z522-C0H
C5	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C6	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C7	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C8	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C9	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C10	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C11	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C12	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C13	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C14	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C15 C16 C36 C37 C38	0150-0121 0160-2055 0150-0121 0160-2055	11	C:FXD CER 0.1 UF +80-20% 50V0CW THRU C:FXD CFR 0.01 UF +80-20% 100VDCW C:FXO CER 0.1 UF +80-20% 50V0CW C:FXO CER 0.01 UF +80-20% 100V0CW	56289 56289 56289 56289	5C5081S-CHL C023F101F103ZS22-CDH 5C5081S-CHL C023F101F103ZS22-CDH
C39	0150-0121		C:FXO CER 0.1 UF +80-20% 50V0CW	56289	5C5081S-CML
C40	0160-2055		C:FXD CER 0.01 UF +80-20% 100V0CW	56289	C023F101F103ZS22-C0H
C41	0160-2055		C:FXD CER 0.01 UF +80-20% 100V0CW	56289	C023F101F103ZS22-CDH
C42	0150-0121		C:FXD CER 0.01 UF +80-20% 50VDCW	56289	5C5081S-CML
C43	0160-2055		C:FXO CER 0.01 UF +80-20% 100V0CW	56289	C023F101F103ZS22-CDH
C44	0160-2055	2	C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C45	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C46	0180-0228		C:FXD ELECT 22 UF 10% 15VDCW	56289	1500226X901582-0YS
C47	0150-0121		C:FXD CER 0.1 UF +80-20% 50VOCW	56289	5C508IS-CML
C48	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C49	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103Z522-CDH
C50	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103Z522-CDH
C51	0180-0228		C:FXO ELECT 22 UF 10% 15VDCW	56289	1500226X90158Z-0YS
C52	0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103Z522-CDH
C53	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103Z522-CDH
C54	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C55	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C56	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C57	0160-2055		C:FXD CER 0.01 UF +80-20% 100VOCW	56289	C023F101F103ZS22-C0H
C58	0180-0229		C:FXD CER 0.01 UF +80-20% 100VOCW	28480	0180-0229
C59	0160-2055		C=FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C60	0160-2055		C=FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C61	0160-2055		C=FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C62	0160-2055		C=FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C63	0160-2055		C=FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-C0H
C64 C65 C66 C85 C86	0160-2055 0180-0229 0160-2055 0150-0121		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10VDCW THRU C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50VOCW	56289 28480 56289 56289	C023F101F103ZS22-C0H 0180-0229 C023F101F103ZS22-CDH 5C508IS-CML
C87 C88 C89 C90	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C 92	0150-0121		C:FXD CER 0.1 UF +80-20% 50VDCW	56289	5C508IS-CML
C 93	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C 94	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C 95	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C 96	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C97	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C98	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C99	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C100	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C101	0160-2055		C:FXD CER 0.01 UF +80-20% 10DVDCW	56289	C023F101F103ZS22-CDH
C102	0150-0121		C:FXD CER 0.1 UF +80-20% 50VDCW	56289	5C508IS-CML
C103	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C104	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C105	0150-0121		C:FXD CER 0.1 UF +80-20% 50VDCW	56289	5C508IS-CML
C106	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C107	0160-2055		C:FXD CER 0.01 UF +80-20% 10DVDCW	56289	C023F101F103ZS22-CDH
C108	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C109	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C110	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
C111	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH

Table 2-42. Control Panel Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
CI12 C113 C114 C115 CR1	0160-2055 0150-0121 0160-2055 0180-0229 1901-0033	2	C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.1 UF +80-20% 50V0CW C:FXD CER 0.D1 UF +80-20% 100VDCW C:FXD CECT 33 UF 10% 10V0CW 0100E:SILICON 100MA 180WV	56289 56289 56289 28480 07263	C023F101F103ZS22-C0H 5C508IS-CML C023F101F103ZS22-CDH 0180-0229 F03369
CR2 R1 R2 R3 R4	1901-0033 1810-0030 1810-0045 1810-0045 1810-0030	4 3	DIDDE:SILICON 100MA 180MV NETWORK:7 RESISTORS 1K OHM 5% 0.15M EA RESISTOR PACK:7 RES. 200 OHM 5% 0.15M RESISTOR PACK:7 RES. 200 OHM 5% 0.15M NETWORK:7 RESISTORS 1K OHM 5% 0.15M EA	07263 28480 28480 28480 28480	FD3369 1810-0030 1810-0045 1810-0045 1810-0030
R5 R6 R7 R8 R9	1813-3045 0757-0280 1810-0030 1810-0030 0757-0280	4	RESISTDR PACK:7 RES- 200 DHM 5% 0-15W R:FXD MET FLM 1K DHM 1% 1/8W NETWORK:7 RESISTDRS 1K DHM 5% 0-15W EA NETWORK:7 RESISTORS 1K DHM 5% 0-15W EA R:FXD MET FLM 1K DHM 1% 1/8W	28480 28480 28480 28480 28480	1810-0045 0757-0280 1810-0030 1810-0030 0757-0280
R10 R11 R12 R13 S1	0698-3159 0698-3159 0757-0280 0757-0280 3101-1213	2	R:FXO MET FLM 26-1K DHM 1% 1/8W R:FXD MET FLM 26-1K DHM 1% 1/8W R:FXO MET FLM 1K GHM 1% 1/8W R:FXD MET FLM 1K DHM 1% 1/8W SWITCH:TOGGLE DPST-DB SU8-MINIATURE	28 4 80 28 4 80 28 4 80 28 4 80 81 6 4 0	0698-3159 0698-3159 0757-0280 0757-0280 T8001
U11 U12 U14 U15 U17	1820-0615 1820-0615 1820-0657 1820-0657 1820-0371	2 6	IC:TTL 8-INPT MULTIPLEXER W/CDM.ENABLE IC:TTL 8-INPT MULTIPLEXER W/CDM.ENABLE IC:OIGITAL TTL 8-INPT PRIORITY ENCODER IC:DIGITAL TTL 8-INPT PRIORITY ENCUOER IC:TTL HS TRIPLE 3-INPT NAND GATE	04713 04713 07263 07263 01295	FAIR 9312 FAIR 9312 U78931859X U78931859X SN74H10N
U18 U21 U22 U24 U25	1820-0262 1820-0424 1820-0262 1820-0657 1820-0371	18 6	IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG. 1C:TTL HS HEX INVERTER 1C:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. 1C:DIGITAL TIL 8-INPT PRIORITY ENCODER 1C:TTL HS TRIPLE 3-1NPT NAND GATE	1204D D4713 12D40 07263 01295	S0 9936 SN 74H04N SU 9936 U78931859X SN 74H1 ON
U26 U27 U28 U31 U32	1820-0424 1820-0370 1820-0262 1820-0535 1820-0262	7 5	IC:TTL HS HEX INVERTER 1C:TTL HS QUAD 2-INPT NAND GATE IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG. IC:TTL DUAL PERI.2-INPT AND DRIVER IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG.	04713 01295 12040 01295 12040	SN74H04N SN74H00N SD9936 SN75451 P SD9936
U33 U34 U35 U36 U37	1820-0495 1820-0657 1820-0375 1820-0141 1820-0370	2 1 4	1C:TTL 1 DF 16 DECDDER IC:DIGITAL TTL 8-INPT PRIDRITY ENCODER IC:TTL HS 8-INPT NAND GATE IC:TTL GUAD 2-INPT NAND GATE IC:TTL HS DUAD 2-INPT NAND GATE	01295 07263 01295 04713 D1295	SN 74154N U78931859X SN 74H30N MC3DO1P SN 74H00N
U38 U41 U42 U43 U44	1820-0262 1820-0535 1820-0262 1820-0495 1820-0657		IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG. IC:TTL OUAL PERI.2-INPT AND DRIVER IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL 1 DF 16 DECODER IC:DIGITAL TTL 8-INPT PRIORITY ENCODER	12040 01295 12040 01295 07263	SD9936 SN75451P SD936 SN74154N U78931859X
U45 U46 U47 U48 U51	1820-0657 1820-0371 1820-0846 1820-0262 1820-0535	3	IC:DIGITAL TTL 8-INPT PRIDRITY ENCODER 1C:TTL HS TRIPLE 3-INPT NANO GATE 1C:TTL DIGITAL DUAD RUFFER 1C:TTL 8-BIT PAR-IN SER-DUT SHIFT REG. 1C:TTL DUAL PERI.2-INPT ANO ORIVER	07263 01295 12D40 12040 01295	U78931859X SN74H10N DM 8094N S09936 SN75451P
U52 U55 U56 U57 U58	1820-D262 1820-0373 1820-0370 1820-D846 1820-0262	3	IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL HS DUAL 4-INPT NAND GATE IC:TTL HS QUAD 2-INPT NANO GATE IC:TTL DIGITAL OUAD BUFFER IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG.	12040 01295 01295 1204D 12040	SD9936 SN74H2 ON SN74H0ON DM 8094N SD9936
U61 U62 U63 U64 U66	1820-0535 1820-0424 1820-0233 1820-0373 1820-0755	1 6	IC:TTL OUAL PERI.2-INPT AND DRIVER IC:TTL HS HEX INVERTER IC:TTL SYNUP-ON 4-81T 8INARY COUNTER IC:TTL HS DUAL 4-INPT NAND GATE IC	01295 04713 01295 01295 28480	SN75451P SN74H04N SN74193N SN74H2DN 1820-0755
U67 U68 U73 U76 U77	18 20-0574 18 20-0262 18 20-0370 18 20-0755 18 20-0574	3	IC:DIGITAL TIL QUAD D-F/F IC:TTL 8-8IT PAR-IN SER-DUT SHIFT REG. IC:TTL HS DUAD 2-INPT NAND GATE IC IC:DIGITAL TIL QUAD D-F/F	12040 12040 01295 28480 12040	DM8551N SD9936 SN74H00N 1820-D755 OM8551N
U78 U84 U86 U87 U88	1820-0262 1820-0207 1820-0755 1820-0574 1820-0262	2	IC:TTL 8-81T PAR-IN SER-GUT SHIFT REG. IC:TTL MDNOSTABLE MULTIVIBRATDR 1C IC:OIGITAL TIL OUAD D-F/F IC:TTL 8-81T PAR-IN SER-OUT SHIFT REG.	12D40 28480 28480 12D40 12040	SD 9936 1820-0207 1820-0755 0M6551N S09936
U94 U96 U97 U98 U105	1820-0207 1820-0141 1820-0371 1820-0370 1820-0239	1	IC:TTL MONOSTABLE MULTIVIBRATOR IC:TTL OUAD 2-INPT AND GATE IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL HS DUAD 2-INPT NAND GATE IC:TTL QUAD 2-INPT NDR GATE	28480 04713 01295 01295 26480	1820-02D7 MC3001P SN74H10N SN74H00N 1820-0239

Table 2-42. Control Panel Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U106 U107 U108 U114 U115	1820-0141 1820-0695 1820-0372 1820-0370 1820-0141	5 2	IC:TTL QUAO 2-INPT ANO GATE IC:TTL SHS DUAL J-K F/F W/PRESET IC:TTL TRIPLE 3-INPT ANO GATE IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL QUAD 2-INPT AND GATE	04713 01295 28480 01295 04713	MC 3001P SN 74S113N 1820-0372 SN 74H00N MC 3001P
U116 U117 U118 U123 U124	1820-0695 1820-0512 1820-0695 1820-0294 1820-0695	2 2	IC:TTL SHS DUAL J-K F/F W/PRESET IC:TTL HS OUAL D F/F(35 MHZ MIN.) IC:TTL SHS DUAL J-K F/F W/PRESET IC:TTL 8-BIT SER-IN PAR OUT SHIFT REG IC:TTL SHS DUAL J-K F/F W/PRESET	01295 01295 01295 01295 12040 01295	SN74S113N SN74H74N SN74S113N SD9935 SN74S113N
U125 U126 U127 U128 U132	1820-0371 1820-0294 1820-0512 1820-0372 1820-0695		IC:TTL HS TRIPLE 3-INPT NAND GATE IC:TTL 8-BIT SER-IN PAR DUT SHIFT REG IC:TTL HS DUAL O F/F(35 MHZ MIN.) IC:TTL TRIPLE 3-INPT AND GATE IC:TTL SHS OUAL J-K F/F W/PRESET	01295 12040 01295 28480 01295	SN74H10N SD9935 SN74H74N 1820-0372 SN74S113N
U134 U135 U138 U142 U143	1820-0374 1820-0424 1820-0370 1820-0371 1820-0742	3	IC:TTL HS OUAL 4-INPT AND GATE IC:TTL HS HEX INVERTER IC:TTL HS QUAO 2-INPT NANO GATE IC:TTL HS TRIPLE 3-INPT NANO GATE IC:TTL DUAL 4-81T LATCH	01295 04713 01295 01295	SN 74H21N SN 74H04N SN 74H00N SN 74H10N
U144 U145 U146 U148 U152	1820-0374 1820-0617 1820-0742 1820-0373 1820-0424	3	IC:TTL HS DUAL 4-INPT AND GATE IC:TTL QUAD 2-INPT EXCL. NOR GATE IC:TTL GUAL 4-BIT LATCH IC:TTL HS DUAL 4-INPT NAND GATE IC:TTL HS HEX INVERTER	07263 01295 04713 07263 01295 04713	U6N930859X SN74H21N MC3022P U6N930859X SN74H20N SN74H04N
U153 U154 U155 U156 U157	1820-0742 1820-0374 1820-0617 1820-0742 1820-0755		IC:TTL DUAL 4-8IT LATCH IC:TTL HS DUAL 4-INPT AND GATE IC:TTL QUAD 2-INPT EXCL. NOR GATE IC:TTL DUAL 4-8IT LATCH IC	07263 01295 04713 07263 28480	UbN930859X SN74H21N MC3022P UbN930859X 1820-0755
U164 U168 U172 U173 U174	1820-0617 1820-0262 1820-0262 1820-0742 1820-0846		IC:TTL OUAD 2-INPT EXCL. NOR GATE IC:TTL 8-BIT PAR-IN SER-CUT SHIFT REG. IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG. IC:TTL DUAL 4-BIT LATCH IC:TTL OIGITAL QUAD SUFFER	04713 12040 12040 07263 12040	MC 30 22P SD 99 36 SD 99 36 USN 93 085 9X DM 80 94 N
U182 U183	1820-0262 1820-0262 1820-0742 1820-0755 1820-0742		IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG. LC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG. IC:TTL DUAL 4-8IT LATCH LC IC:TTL DUAL 4-8IT LATCH	12040 12040 07263 28480 07263	\$09936 \$09936 \$16N930859X \$1820-0755 \$16N930859X
U192 U195 U198	1820-0262 1820-0384 1820-0608 1820-0262 1820-0379	1 1	1C:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. 1C:TTL HS TRIPLE 3-INPT EXPANDER 1C:TTL 1 DF DECDDER W/ENABLE 1C:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. 1C:TTL HS 4w 2-2-2-3 INPT AND/OR GATE	12040 01295 04713 12040 01295	S0 9936 SN 74H6 IN MC 40 06 P SD 9936 SN 74H5 2N
U204 U206	1820-0742 1820-0424 1820-0755 1820-0535		IC:TTL OUAL 4-BIT LATCH 1C:TTL HS HEX INVERTER IC IC:TTL DUAL PERI-2-INPT AND DRIVER	07263 04713 28480 01295	U6N930859X 5N74H04N 1820-0755 SN75451P

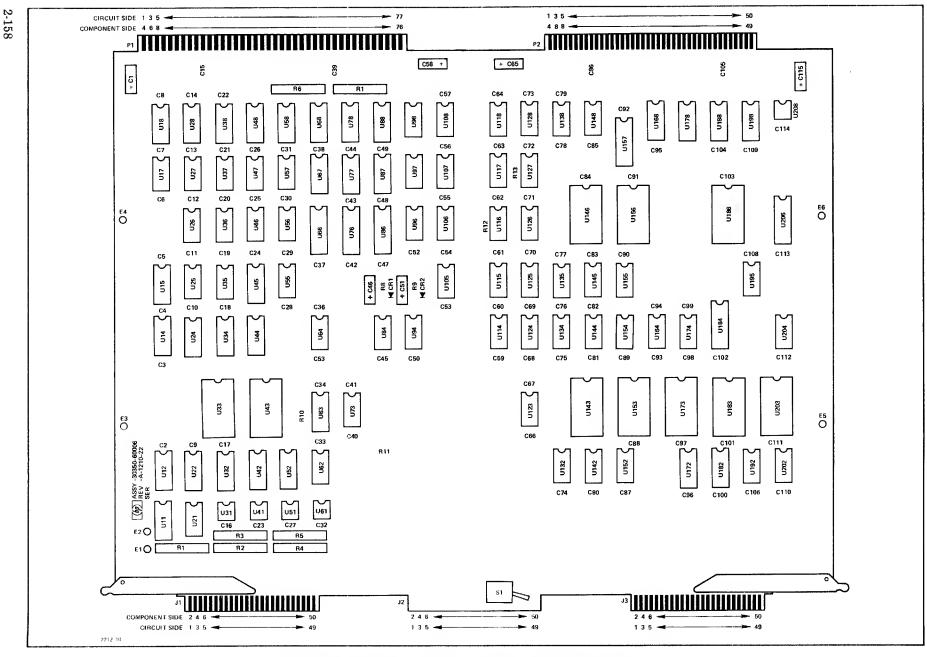


Figure 2-41. Control Panel Interface PCA, Parts Location Diagram

Table 2-43. Controller Maintenance Interface PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30351-60001 0160-2055 0180-0197 0180-0197 0160-2055	1 23 6	CONTROLLER MAINTENANCE INTERFACE PCA C:FXO CER 0.01 UF +80-20% 100VOCM C:FXO ELECT 2.2 UF 10% 20VOCM C:FXO ELECT 2.2 UF 10% 20VOCM C:FXO CER 3.01 UF +80-20% 100VOCM	28 480 56 289 56 289 56 289 56 289	30351-60001 C023F101F103ZS22-C0H 1500225X9020A2-0YS 1500225X9020A2-0YS C023F101F103ZS22-C0H
C5 C6 C7 C8 C9	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO ELECT 2.2 UF 10% 20VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 1500225X9020A2-0YS
C10 C11 C12 C13 C14	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C15 C16 C17 C18 C19	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H
C20 C21 C22 C23 C24	0160-2055 0160-2055 0160-2055 0160-3456 0160-3456	7	C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 1000 PF 10% 250VDCW C:FXO CER 1000 PF 10% 250VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C047F251F102KS22-C0H C047F251F102KS22-C0H
C25 C26 C27 C28 C29	0160-3456 0160-3456 0160-2055 0180-0197 0180-0197		C:FXO CER 1000 PF 10% 250VDCW C:FXO CER 1000 PF 10% 250VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXO ELECT 2.2 UF 10% 20VDCW	56289 56289 56289 56289 56289	C067F251F102KS22-CDH C067F251F102KS22-C0H C023F101F103ZS22-C0H 1500225X9020A2-OYS 1500225X9020A2-OYS
C30 C31 C32 C33 C34	0160-2055 0160-2055 0180-0197 0160-2055 0160-3456		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO ELECT 2.2 UF 10% 20VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 1000 PF 10% 250VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H 1500225X902UA2-OYS C023F101F103ZS22-C0H C067F251F102KS22-C0H
C35 C36 J1 J2 O1	0160-3456 0160-3456 1251-3141 1251-3141 1854-0071	2	C:FXO CER 1000 PF 10% 250VDCW C:FXO CER 1000 PF 10% 250VDCW TSTR:SI NPN(SELECTEO FROM 2N3704)	56289 56289 28480	C067F251F102KS22-C0H C067F251F102KS22-C0H
R1 R2 R3 R4 R5	0757-0280 0757-0280 0757-0407 0757-0280 0757-0280	21 3	R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 200 OHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280
R6 R7 R8 R9 R10	0757-0403 0757-0403 0757-0280 0757-0280 0757-0280	4	R:FXO MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 121 UHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0403 0757-0403 0757-0280 0757-0280 0757-0280
R11 R12 R13 R14 R15	0757-0403 0757-0403 0698-0082 0698-0082 0757-0280	2	R:FXO MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 121 OHM 1% 1/8W R:FXO MET FLM 464 OHM 1% 1/8W R:FXO MET FLM 464 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0403 0757-0403 0698-0082 0698-0082 0757-0280
R16 R17 R18 R19 R20	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280		R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28 480 28 480 28 480 28 480 28 480	0757-0280 0757-0280 0757-0280 0757-0280 0757-0280
R21 R22 R23 R24 R25	0757-0407 0757-0407 0757-0280 0757-0280 0757-0280		R:FXO MET FLM 200 OHM 1% 1/8W R:FXO MET FLM 200 OHN 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0407 0757-0407 0757-0280 0757-0280 0757-0280
	0757-0280 0757-0280 0757-0280 1810-0125 0698-3155	2 2	R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W R:FXO MET FLM 1K CHM 1% 1/8W RESISTIVE NETWORK:7 X 4-7K CHM 5% 0-15W R:FXO MET FLM 4-64K CHM 1% 1/8W	28 480 28 4 80 28 4 80 28 4 80 28 4 80	0757-0280 0757-0280 0757-0280 1810-0125 0698-3155
R32 R33 R34	1810-0125 06 98-3155 0757-0280 0757-0280 1820-0141	2	RESISTIVE NETWORK:7 X 4.7K OHM 5% 0.15W R:FXD MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W IC:TIL OUAD 2-1NPT AND GATE	28480 28480 28480 28480 04713	1810-0125 0698-3155 0757-0280 0757-0280 MC3001P

Table 2-43. Controller Maintenance Interface PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description ,	Mfr Code	Mfr Part Number
U27 U33	1820-0615 1820-0239 1820-0535 1820-0140 1820-0424	1 1 2 3 2	IC:TTL 8-INPT MULTIPLEXER W/COM.ENABLE IC:TTL QUAD 2-INPT NOR GATE IC:TTL QUAL PERI.2-INPT AND DRIVER IC:TTL QUAL 4-INPT AND BUFFER IC:TTL HS HEX INVERTER	04T13 28480 01295 04713 04713	FAIR 9312 I 820-0239 SNT5451P MC 3026P SNT4H04N
U46 U53 U54	1820-0140 1820-0054 1820-0759 1820-0077 1820-0141	2 4 T	IC:TTL OUAL 4-INPT AND BUFFER IC:TTL OUAD 2-INPT NANO GATE IC:TTL LOW-POWER 8-8IT RECEIVER IC:TTL OUAL D F/F IC:TTL OUAL D -INPT ANO GATE	04713 01295 28480 01295 04713	MC3026P SN7400N 1820-0159 SN7474N MC3001P
U57 U61 U62	1820-0233 1820-0372 1820-0759 1820-0301 1820-0301	1 1 6	IC:TTL SYMUP-ON 4-BIT BINARY COUNTER IC:TTL TRIPLE 3-INPT AND GATE IC:TTL LOW-POWER B-BIT RECEIVER IC:TTL QUAQ 81-STABLE O-LATCH IC:TTL QUAQ BI-STABLE O-LATCH	01295 28480 28480 01295 01295	SN74193N 1820-03T2 1820-0T59 SNT4T5N SN74T5N
U65 U66 U6T	1820-0077 1820-0077 1820-0424 1820-0715 1820-0262	1 14	IC:TTL DUAL D F/F IC:TTL OUAL O F/F IC:TTL HS HEX INVERTER IC:TTL OIGITAL HI-SPEEO J-K F/F IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG.	01295 01295 04713 01295 12040	SNT4T4N SNT4T4N SNT4H04N SNT4H106N SD 9936
U73 U74 U75	1820-0301 1820-0294 1820-0301 1820-0262 1820-0608	2	IC:TTL QUAO 81-STABLE D-LATCH IC:TTL 8-BIT SER-IN PAR QUT SHIFT REG IC:TTL QUAD 81-STABLE 0-LATCH IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL 1 OF OECODER W/ENABLE	01295 12040 01295 12040 04713	SN 74 T5N SO 99 35 SN T4 75N SO 99 36 MC4006P
U81 U82 U83	1820-0054 1820-0262 1820-0262 1820-0301 1820-0294		IC:TTL QUAO 2-INPT NAMD GATE IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG. IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL 0UAO BI-STABLE D-LATCH IC:TTL 8-BIT SER-IN PAR DUT SHIFT REG	01295 12040 12040 01295 12040	SN 74 00N SD 9936 SD 9936 SN 74 75N SD 9935
U86 U87 U91	1820-0077 1820-0068 1820-0017 1820-0262 1820-0617	1	IC:TTL DUAL O F/F IC:TTL TRIPLE 3-INPUT POS NANO GATE IC:TTL OUAL O F/F IC:TTL 8-BIT PAR-IN SER-CUT SHIFT REG. IC:TTL OUAO 2-INPT EXCL. NOR GATE	01295 12040 01295 12040 04T13	SNT474N SNT410N SNT474N SD9936 MC3022P
U94 U95 U96	1820-061 T 1820-0301 1820-007T 1820-0077 1820-0262		IC:TTL QUAO 2-INPT EXCL. NOR GATE IC:TTL QUAO 8I-STABLE D-LATCH IC:TTL DUAL 0 F/F IC:TTL QUAL D F/F IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG.	04713 01295 01295 01295 12040	MC 3022P SN74 T5N SN74 74N SN74 T4N S09936
U103 U104 U105	1820-03T4 1820-03T4 1820-0617 1820-0262 1820-0535	2	IC:TTL HS DUAL 4-INPT AND GATE IC:TTL HS DUAL 4-INPT AND GATE IC:TTL QUAO 2-INPT EXCL. NOR GATE IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL QUAL PERI.2-INPT AND DRIVER	01295 01295 04713 12040 01295	SNT4H21N SNT4H21N MC3022P SD9936 SN75451P
U114 U133 U134	1820-0140 1820-0262 1820-0759 1820-0262 1820-0205	1	IC:TTL OUAL 4-INPT AND BUFFER IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL LOW-POWER 8-81T RECEIVER IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL QUAO 2-INPT OR GATE	04T13 12040 28480 12040 28480	MC3026P SD99 36 1820-075 9 SD99 36 1820-0205
U144 U145 U153	1820-0156 1820-0262 1820-0262 1820-0759 1820-0262	2	IC:TTL 8-8IT ORIVER INVERTING IC:TTL 8-8IT PAR-IN SER-DUT SHIFT REG.	28480 12040 12040 28480 12040	1820-0756 S09936 S09936 1820-0759 SD9936
U164 U165	1820-0756 1820-0262 1820-0262 5040-1485	1	IC:TTL 8-BIT ORIVER INVERTING IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG. IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG. CONOUCTOR ASSEMBLY:PLUG-IN JUMPER	28480 12040 12040 28480	1820-0756 SD9936 SD9936 5040-1485

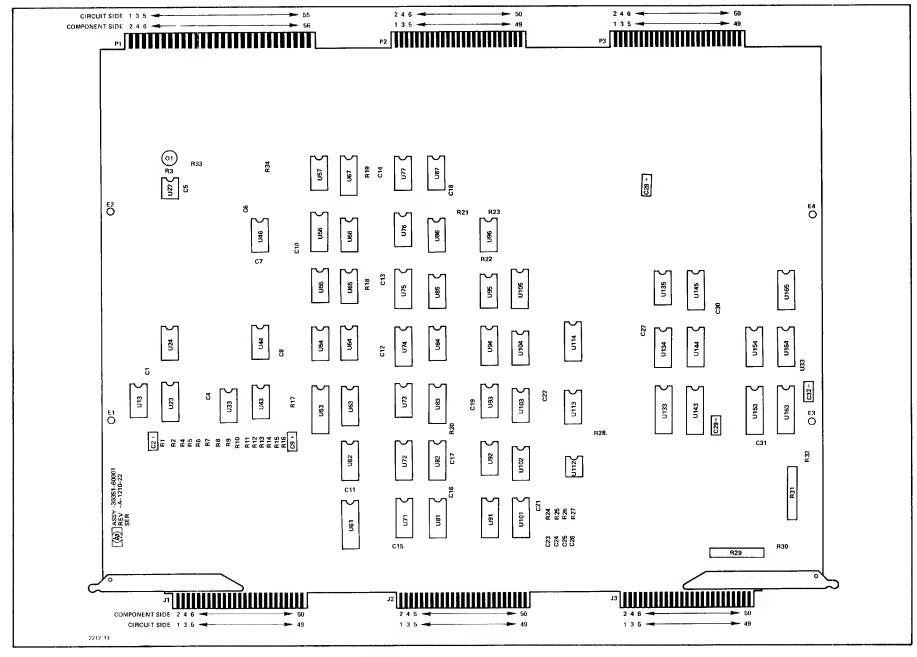


Figure 2-42. Controller Maintenance Interface PCA, Parts Location Diagram

Table 2-44. Fan Assembly, Replaceable Parts

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
2-43-	No Number	FAN ASSEMBLY (Refer to table 2-1)			
1	0362-0341	* TERMINAL SPLICE	00000	OBD	2
2	8120-1478	* CONNECTOR, receptacle (J1, J2)	28480	8120-1478	2
3	8120-1861	* CABLE ASSEMBLY	28480	8120-1861	1
4	0400-0083	* BUSHING, cable	28480	0400-0083	1
5	3160-0257	* FAN, tube axial (B1, B2) (Attaching Parts)	28480	3160-0257	2
6	Coml	* SCREW, machine, no. 8-32, 0.750 in, pan head			4
7	30001-00019	* PLATE, fan mounting	28480	30001-00019	1

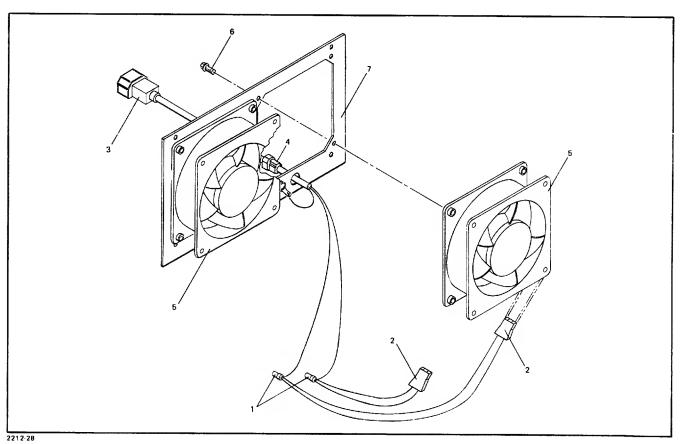


Figure 2-43. Fan Assembly, Exploded View

Table 2-45. Power Supply Assembly, Replaceable Parts

2-44-			CODE	MFR PART NO.	ASSY
1		POWER SUPPLY ASSEMBLY (Refer to table 2-1)	28480	30310A	1
	30310A 30310-00023	* COVER, top	28480	30310-00023	
'	30310-00023	(Attaching Parts)			
2	Coml	* SCREW, machine, no. 4-40, 0.250 in, pan head			6
3	Coml	* WASHER, split lock, no. 4			6
		_ x _			
4	30310-60006	 VOLTAGE PROTECT PCA (A5) (see figure 2-56) 	28480	30310-60006	
5	30310-60005	* CURRENT LIMIT PCA (A4) (see figure 2-55)	28480	30310-60005	1 1
6	30310-60004	* 20 VOLT SUPPLY PCA (A3) (see figure 2-54)	28480	30310-60004	1 1
7	30310-60003	* INVERTER DRIVER PCA (A2) (see figure 2-53)	28480	30310-60003 30310-60002	'
8	30310-60002	* PREREGULATOR CONTROL PCA (A1) (see figure 2-52)	28480 28480	30310-00002	'
9	30310-00003	* SPACER, hinge	20400	30310-00003	'
- 0		(Attaching Parts) * SCREW, machine, no. 10-32, 0.375 in, pan head	l i		4
10	Coml Comi	* NUT, assembled washer, ext-tooth, no. 10-32			4
11	Comi	x			
12	3110-0085	* HINGE	28480	3110-0085	1 1
'2	3110 0000	(Attaching Parts)			
13	Coml	* SCREW, machine, no. 8-32, 0.500 in, pan head			4
14	Coml	* WASHER, split lock, no. 8			4
		x _			
15	30310-00024	* COVER, bottom	28480	30310-00024	1
		(Attaching Parts)			
16	Coml	* SCREW, machine, no. 4-40, 0,500 in, pan head			3 3
17	Coml	* WASHER, split lock, no. 4			3
		x			6
18	Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head			6
19	Coml	* WASHER, split lock, no. 6 * SCREW, machine, no. 8-32, 0.375 in, pan head			8
20	Coml Coml	* WASHER, split lock, no. 8	1 1		8
21 22	30310-60015	* OUTPUT CROWBAR ASSEMBLY (A13) (see figure 2-45)	28480	30310-60015	1
	000,000,0	(Attaching Parts)			
23	Coml	* SCREW, machine, no. 6-32, 0.250 in, pan head			2
24	Coml	* WASHER, splot lock, no. 6			2
		x		00040 00040	
25	30310-60013	* FRONT PANEL ASSEMBLY (A12) (see figure 2-46)	28480	30310-60013	1 1
	No Number	* RIGHT SIDE ASSEMBLY	1		'
1		(Attaching Parts)			6
26	Coml	* SCREW, machine, no. 8-32, 0.375 in, pan head	1		6
27	Coml	* WASHER, split lock, no. 8 * SCREW, machine, no. 6-32, 0.375 in, pan head			2
28	Comi	* WASHER, split lock, no. 6			2
29	Com	x			
30	9100-2939	** TRANSFORMER, power	28480	9100-2939	1
	1	(Attaching Parts)	1		İ
1	Coml	** SCREW, machine, no. 6-32, 0.500 in, pan head			4
1	Coml	** NUT, plain, hexagon, no. 6-32			4
		x			
31	3160-0257	** FAN, tube axial 50/60 Hz (B1) (Attaching Parts)	99743	WS2107FL-531	1
	Coml	** SCREW, machine, no. 6-32, 0.750 in, pan head			4

Table 2-45. Power Supply Assembly, Replaceable Parts (Continued)

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
2-44-				-	
	Coml	** WASHER, split lock, no. 6			4
İ	Coml	** NUT, plain, hexagon, no. 6-32			4
32	5000-8015	x ** GUARD fan			
33	0360-1729	** GUARD, fan ** TERMINAL BLOCK (TB2)	28480	5000-8015	1
	00001720	(Attaching Parts)	00000	OBD	1
	Coml	** SCREW, machine, no. 6-32, 0.625 in, pan head			4
	Coml	** WASHER, split lock, no. 6			4
	Coml	** NUT, plain, hexagon, no. 6-32 ——— x———			4
34	30310-20004	** SUPPORT BLOCK	28480	20210 20004	
		(Attaching Parts)	20400	30310-20004	2
	Coml	** SCREW, machine, no. 6-32, 0.875 in, pan head			1
	Coml	** NUT, assembled washer, no. 6-32			1
35	0360-1757	** TERMINAL BLOCK (TB1)			
36	30310-00015	** PANEL, right side	00000 28480	OBD 30310-00015	1
	No Number	* PCA CAGE ASSEMBLY	20400	303 10-000 15	1
		(Attaching Parts)			
37	Coml	* SCREW, machine, no. 6-32, 0.250 in, pan head			6
38	Coml	* WASHER, split lock, no. 6]		6
39	30310-00012	x ** PANEL, left side	28480	20210 00010	
l		(Attaching Parts)	20400	30310-00012	1
ļ	Coml	** SCREW, machine, no. 6-32, 0.312 in, pan head			2
	Coml	** WASHER, split lock, no. 6			2
40	30310-00013	——————————————————————————————————————			
40	30310-00013	** PANEL, right side (Attaching Parts)	28480	30310-00013	1
	Coml	** SCREW, machine, no. 6-32, 0.312 in, pan head			
1	Coml	** WASHER, split lock, no. 6			2 2
4.	00040 00040	x			
41	30310-60012 No Number	** CONNECTOR PANEL ASSEMBLY * REAR PANEL ASSEMBLY	28480	30310-60012	1
	(VO (Valide)	(Attaching Parts)			1
42	Coml	* SCREW, machine, no. 8-32, 0.375 in, pan head			8
43	Coml	* WASHER, split lock, no. 8			8
44	Comi	x	1 1		
45	Coml Coml	** SCREW, machine, no. 6-32, 0.375 in, pan head ** WASHER, lock, ext-tooth, no. 6			1
46	Coml	** NUT, assembled washer, no. 6-32			1
47	30310-60010	** PREREGULATOR ASSEMBLY (A9) (see figure 2-48) (Attaching Parts)	28480	30310-60010	1 1
	Coml	** SCREW, machine, no. 6-32, 0.375 in, pan head			4
Ì	Coml	** WASHER, split lock, no. 6			4
40	00004054	x			
48	0360-1254	** TERMINAL BLOCK, 6 terminal (TB3)	00000	OBD	1
	Coml	(Attaching Parts) ** SCREW, machine, no. 6-32, 0.500 in, pan head			_
	Coml	** WASHER, split lock, no. 6			2 4
	Coml	** NUT, plain, hexagon, no. 6-32			2
49	20210 00017	x ** REAR PANEL			
50	30310-00017 30310-60007	** REAR PANEL * INVERTER PCA (A7) (see figure 2-49)	28480 28480	30310-00017	1
		(Attaching Parts)	20400	30310-60007	1
i					

Table 2-45. Power Supply Assembly, Replaceable Parts (Continued)

FIG &					UNITS
NO.	HP PART NO.	DESCRIPTION	CODE	MFR PART NO.	PER ASSY
2-44-					
51	Comi	* SCREW, machine, no. 6-32, 0.375 in, pan head			4
52 53	Coml Coml	* WASHER, split lock, no. 6 * WASHER flat no. 6			4
53	Comi	* WASHER, flat, no. 6 x			4
54	30310-00022	* INVERTER BRACKET	28480	30310-00022	1
55	30310-00019	* PAD, capacitor	28480	30310-00019	1
56	9100-2938	* TRANSFORMER, pulse (T1, T2)	28480	9100-2938	2
	Coml	(Attaching Parts) * SCREW, machine, no. 6-32, 0.375 in, pan head			4
	Coml	* WASHER, split lock, no. 6	1		4
	Coml	* WASHER, flat, no. 6			4
	2024.0.00044	x			
57	30310-60011	* 5V/20V RECTIFIER ASSEMBLY (A6) (see figure 2-50) (Attaching Parts)	28480	30310-60011	1
	Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head			4
	Coml	* WASHER, split lock, no. 6			4
58	20210 20002	x			
98	30310-20003	* STANDOFF (Attaching Parts)	28480	30310-20003	4
	Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head			4
	Coml	* WASHER, split lock, no. 6			4
l		x			
59	30310-00001	* HEAT SINK BRACKET * SCREW machine no 6-32 0 375 in pan head	28480	30310-00001	1
	Coml Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head * WASHER, split lock, no. 6			2
	30	x			2
60	30310-00011	* TRANSFORMER BRACKET	28480	30310-00011	1
	01	(Attaching Parts)			
	Coml Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head * WASHER, split lock, no. 6			2
	Com	x			2
61	30310-60014	* DECK ASSEMBLY (A8) (see figure 2-51)	28480	30310-60014	1

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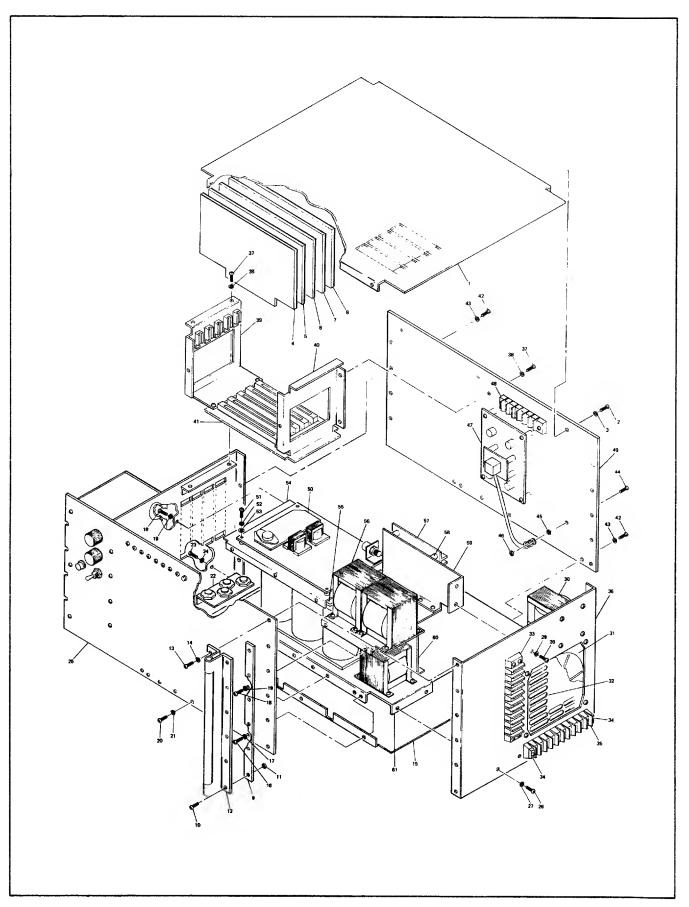


Figure 2-44. Power Supply Assembly, Exploded View

Table 2-46. Output Crowbar Assembly (A13), Replaceable Parts

FIG &					UNITS
NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	PER ASSY
2-45- 1	30310-60015 1884-0208	OUTPUT CROWBAR ASSEMBLY (A13) (22, figure 2-44) * THYRISTOR, 35A, 100V (Q1, Q2) (Attaching Parts)	28480 12040	30310-60015 NL570A	1 2
2 3 4	1200-0088 Coml Coml	* HEAT INSULATOR * WASHER, flat, 0.250 ID * SOLDER LUG, 0.250 ID	28480	1200-0088	2 1 1
5	Coml	* NUT, plain, hexagon, 1/4-28 x			1
6	1901-0315	* DIODE, Si, 50 prv, 40A (CR1, CR2) (Attaching Parts)	80131 28480	IN1183A	2 2
7 8 9 10	1200-0088 Coml Coml	* HEAT INSULATOR * WASHER, flat, 0.250 ID * SOLDER LUG, 0.250 ID * NUT, plain, hexagon, 1/4-28 X	20400	1200-0088	1 1 1
11 12	0340-0077 30310-00006	* INSULATOR, feed thru * BRACKET, crowbar	28480 28480	0340-0077 30310-00006	1
	į				

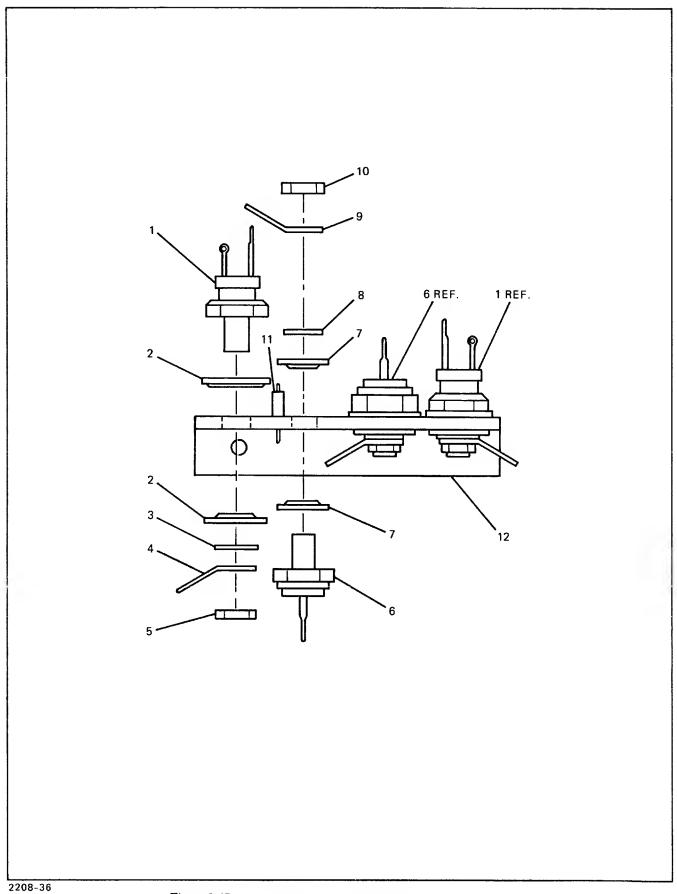


Figure 2-45. Output Crowbar Assembly (A13), Exploded View

Table 2-47. Front Panel Assembly (A12), Replaceable Parts

Table 2-47. Front Panel Assembly (A12), Replaceable Parts								
FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY			
2-46-	30310-60013	FRONT PANEL ASSEMBLY (A12), (25, figure 2-44)	28480	30310-60013	1 1			
1	1251-0367	* JACK, tip (J1 thru J8)	28499	69003-1165	8			
2	30310-60001	* TEST POINT ASSEMBLY (A1) (see figure 2-47)	28480	30310-60001	1 1			
3	1251-2357	* RECEPTACLE, power, 3 pin (J9) (Attaching Parts)	82389	EAC-301	1 1			
	Coml	* SCREW, machine, no. 6-32, 0.375in, pan head			2			
	Coml	* WASHER, split lock, no. 6			2			
	Coml	* NUT, plain, hexagon, no. 6-32			2			
4	30310-00010	* COVER, side, power input (Attaching Parts)	28480	30310-00010	1			
	Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head			4			
	Coml	* WASHER, split lock, no. 6			4			
	Coml	* NUT, plain, hexagon, no. 6-32	1		2			
Ì		x						
5	1400-0189	* CLAMP, capacitor (Attaching Parts)	24446	128A2244621	1			
	Coml	* SCREW, machine, no. 8-32, 0.375 in, pan head			2			
	Coml	* WASHER, split lock, no. 8			2			
6	0160-3898	* CAPACITOR, fxd, dielectric, 1 μF, 440 Vacw (C1)	56289	200P 1449	1 1			
7	2110-0001	* FUSE, 1A (F2)	00000	OBD	1 1			
8	2110-0010	* FUSE, 5A (F1)	00000	OBD	1 1			
9	1400-0084	* FUSEHOLDER (XF1, XF2)	00000	OBD	2			
10	0811-1854	* RESISTOR, fxd, ww, 50 ohms, 5%, 5W (R1)	56289	243E	1 1			
11	1450-0755	* LAMP (DS1)	1					
12	3101-0056	* SWITCH, toggle, DPDT (S1)	27191	8926K316				
13	0160-0904	* CAPACITOR, fxd, cer, 0.05 μF, +20%,1000 Vdcw (C2)	56289	10B1	1 1			
14	9100-3174	* LINE FILTER, 10A, 115/230V (FL1) (Attaching Parts)	26364	10B1	1			
1	Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head			2			
	Coml Coml	* WASHER, split lock, no. 6 * NUT, plain, hexagon, no. 6			2 2			
15	30310-00016	x	28480	30310-00016	1			
ŀ		(Attaching Parts)			4			
	Coml Coml	* SCREW, machine, no. 8-32, 0.375 in, pan head * WASHER, split lock, no. 8			4			
16	1990-0332	* LAMP, VF = 1.8 to 3.5V (DS2)	72765 28480	6039-004-304 30310-00014	1			
17	30310-00014	* PANEL, front	20-00	33310 33311				
					İ			
		<u> </u>						

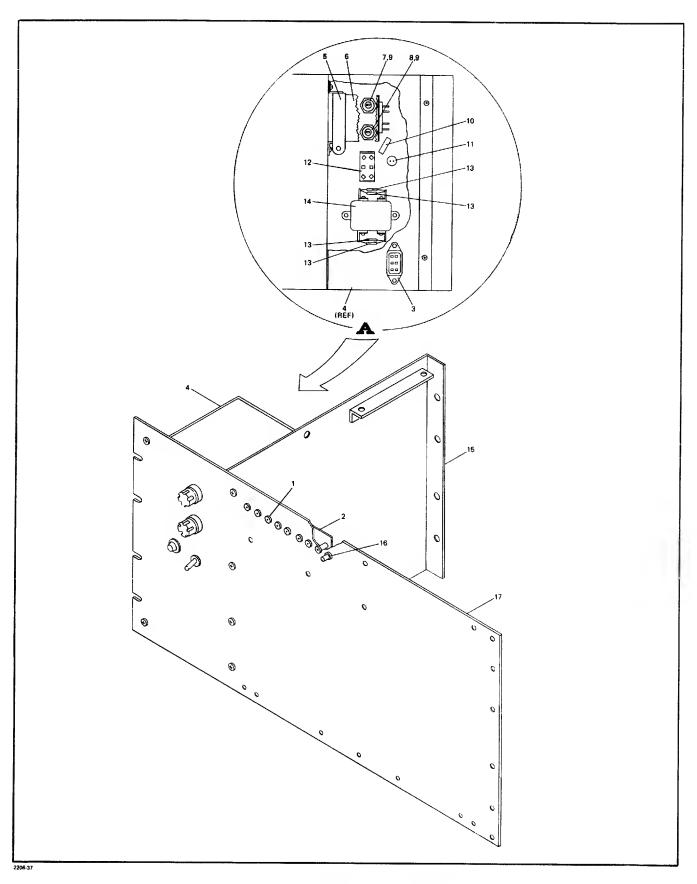


Figure 2-46. Front Panel Assembly (A12), Exploded View

Table 2-48. Test Point Assembly (A12A1), Replaceable Parts

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
2-47- 1 2 3 4 5	30310-60001 0698-3444 0757-1000 0698-0090 0757-0818 0698-0089	TEST POINT ASSEMBLY (A12A1) (2, figure 2-46) * RESISTOR, fxd, flm, 316 ohms, 1%, 1/8W (R1) * RESISTOR, fxd, flm, 51.1 ohms, 1%, 1/2W (R2, R3) * RESISTOR, fxd, flm, 464 ohms, 1%, 1/2W (R4, R5) * RESISTOR, fxd, flm, 825 ohms, 1%, 1/2W (R6, R7) * RESISTOR, fxd, flm, 1780 ohms, 1%, 1/2W (R8)	28480 28480 28480 28480 28480 28480	30310-60001 0698-3444 0757-1000 0698-0090 0757-0818 0698-0089	1 1 2 2 2 1

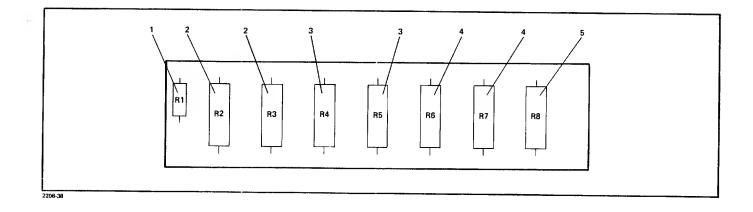


Figure 2-47. Test Point Assembly (A12A1), Parts Location Diagram

Table 2-49. Preregulator Assembly (A9), Replaceable Parts

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
2-48-	30310-60010	PREREGULATOR ASSEMBLY (A9), (57, figure 2-44)	28480	30310-60010	
1	30310-60009	* PREREGULATOR DRIVER ASSEMBLY (Attaching Parts)	28480	30310-60009	1
2	Comi	* SCREW, machine, no. 4-40, 0.500 in, pan head	1		4
3	Comi	* WASHER, split lock, no. 4			4
4	Comi	* WASHER, flat, no. 4			4
5	0380-0019	* SPACERx	28480	0380-0019	4
6	0757-0316	** RESISTOR, fxd, flm, 42.2 ohms, 1%, 1/8W (R1, R4)	28480	0757-0316	2
7	1901-0159	** DIODE, Si, 0.75A, 400 prv (CR1, CR2)	04713	SR1358-4	2
8	0757-0401	** RESISTOR, fxd, flm, 100 ohms, 1%, 1/8W (R2, R3)	28480	0757-0401	2
9	9100-2942	** TRANSFORMER, pulse (T1) ** BLANK BOARD	28480	9100-2942	1
10	30310-80009	1 52/11/15	28480	30310-80009	1
11	9100-2928	0110KE, Micor, 57, 0.012 01Mis (11)	28480	9100-2928	1
12	1901-1061	(Attaching Parts)	04713	MR886	2
13	2190-0498	* INSULATOR-MICA * WASHER flat no. 10	28480	1200-0080	2
14	Comi	WASHEN, Hat, No. 10	1 1		1
15	Coml	30EDEN E04, No. 10	1		2
16	Coml	* NUT, plain, hexagon, no. 10x			1
17	1884-0219	* THYRISTOR (Q1, Q2) (Attaching Parts)	28480	1884-0219	2
18	3050-0591	* INSULATOR-MICA	28480	1200-0088	2
19	Coml	* WASHER, flat, 1/4 in. ID			1
20	Coml	* SOLDER LUG, 1/4 in. ID	1 1		2
21	Comi	* NUT, plain, hexagon, 1/4-28x			1
22	0764-0015	* RESISTOR, fxd, flm, 560 ohms, 5%, 2W (R5)	28480	0764-0015	1
23	0160-0904	* CAPACITOR, fxd, cer, 0.05 μF, 20%, 1000 Vdcw (C1)	56289	41C169A4-CDH	1
24	0340-0077	* TERMINAL	28480	0340-0077	6
25	30310-20003	* SPACER (Attaching Parts)	28480	30310-20003	4
26	Comi	* SCREW, machine, no. 6-32, 0.375 in, pan head]		1
27	Comi	* WASHER, split lock, no. 6			1
28	30310-20002	* HEAT SINK	28480	30310-20002	1
29	0340-0507	* TEFLON SPACER	28480	0340-0507	
30	0340-0508	* TEFLON SPACER	28480		2
	0040 0000	TEPLON SPACER	28480	0340-0508	2
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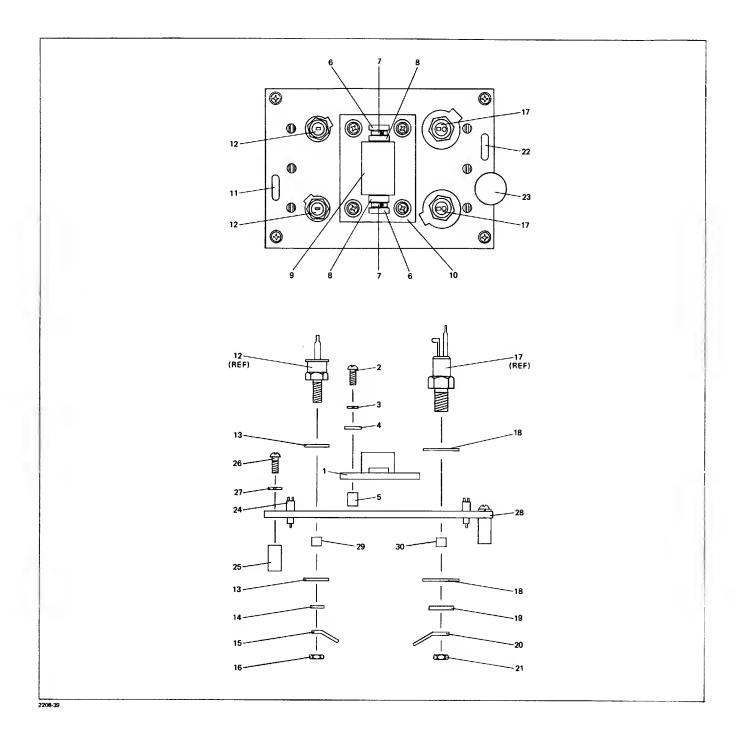


Figure 2-48. Preregulator Assembly (A9), Exploded View

Table 2-50. Inverter PCA (A7), Replaceable Parts

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
0.40	20210 0002	INVERTER PCA (A7) (50, figure 2-44)	28480	30310-60007	1
2-49- 1	30310-60007 1854-0572	* TRANSISTOR, Si, NPN (Q1 thru Q4) (Attaching Parts)	02735	2N5805	4
	Comi	* SCREW, machine, no. 6-32, 0.250 in, pan head			2
	Coml	* WASHER, split lock, no. 6			2
2	30310-00007	* HEAT SINK (Attaching Parts)	28480	30310-00007	1
	Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head			4
	Coml	* WASHER, split lock, no. 6		2002 4202	4
	0380-1030	* STANDOFFx	28480	0380-1030	4
3	0160-0174	* CAPACITOR, fxd, cer, 0.47 μF, -20 +80%, 25 Vdcw (C1 thru C4)	56289	C11B7S-CML	4
4	9100-2945	* TRANSFORMER, pulse (T1, T2)	28480	9100-2945	2
5	0811-3108	* RESISTOR, fxd, ww, 2 ohms, 10% (R1)	28480	0811-3108	1 2
6	1902-0661	* DIODE, zener, 75V +5% (CR1, CR2)	04713 28480	SZ11213-392 0757-0316	2 2
7	0757-0316	* RESISTOR, fxd, flm, 42.2 ohms, 1%, 1/8W (R2, R4) * CAPACITOR, fxd, elect, 1.0 µF, -10 +50%, 150 Vdcw (C7)	56289	30D105F150BA2-DSM	1
8	0180-0269	* CAPACITOR, fxd, elect, 1.0 µF, -10 +50%, 150 Vdcw (C7) * THYRISTOR (Q5)	28480	1884-0219	1
9 10	1884-0219 30310-0000	* SCR BRACKET (Attaching Parts)	20 100	100, 52.0	1
	Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head			2
	Coml	* WASHER, flat, no. 6			2
	Coml	* WASHER, split lock, no. 6			2
	Coml	* NUT, plain, hexagon, no. 6-32			2
11	0757-0401	* RESISTOR, fxd, flm, 100 ohms, 1%, 1/8W (R3)	28480	0757-0401	1
12	1901-0159	* DIODE, Si, 0.75A, 400 prv (CR3 thru CR19)	04713	SR 1358-4	17
13	2110-0003	* FUSE, 3A, 3AG (F1, F2)	75915	312.002	2
14	0160-0168	* CAPACITOR, fxd, my, 0.1 µF, 10%, 200 Vdcw (C5, C6)	56289	192P10492-PTS	2
15	0757-0367	* RESISTOR, fxd, flm, 100k ohms, 1%, 1/2W (R5, R6)	28480 28480	0757-0367 30310-80007	2
16	30310-80007	* BLANK BOARD	20400	30310-80007	'
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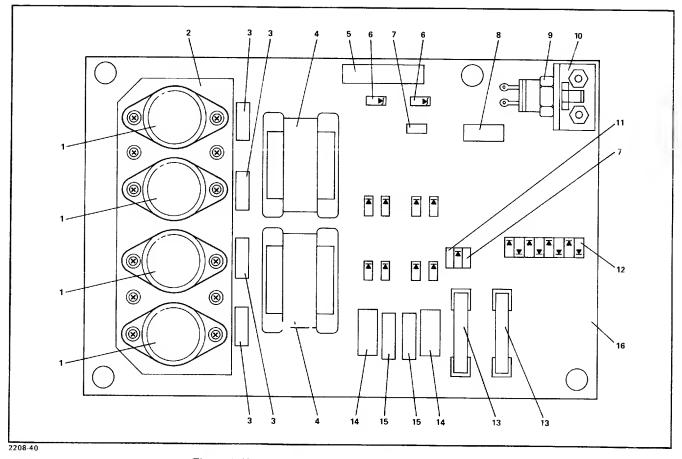
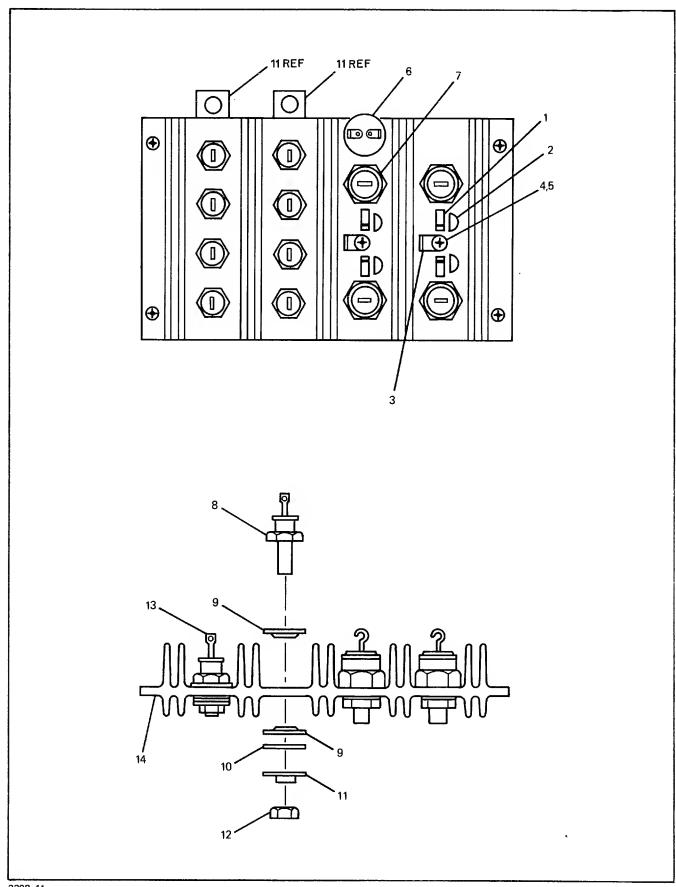


Figure 2-49. Inverter PCA (A7), Parts Location Diagram

Table 2-51. 5V/20V Rectifier Assembly (A6), Replaceable Parts

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
2-50- 1	30310-60011 1902-0202	5V/20V RECTIFIER ASSEMBLY (A6), (57, figure 2-44) * DIODE, breakdown, 15.0V, 5%, 1W (CR9, CR12, CR13, CR16)	28480 28480	30310-60011 1902-0202	1 4
2	0150-0121	* CAPACITOR, fxd, cer, 0.1 µF, -20 +80%, 50 Vdcw (C1 thru C4)	56289	SC50BIS-CML	4
3	Coml	* SOLDER LUG, no. 6 (Attaching Parts)			2
4 5	Coml Coml	* SCREW, machine, no. 6-32, 0.312 in, pan head * WASHER, split lock, no. 6 x			1
6	3103-0015	* THERMAL SWITCH 75°C (S1) (Attaching Parts)	14604	3001T125B211-3/8	1
	Coml Coml	* WASHER, split lock, no. 6 * NUT, plain, hexagon, no. 6-32 x			1 1
7	1901-0661	* DIODE, Schottky barrier (CR9, CR12, CR13, CR16) (Attaching Parts)	04713	SBD5033K	4
	Coml Coml	* WASHER, lock, ext-tooth, no. 10 * NUT, plain, hexagon, no. 10-32 x			1
8	1901-1035	* DIODE, fxd, 100V, 12A (CR5 thru CR8) (Attaching Parts)	28480	1901-1035	4
9 10	1200-0080 Coml	* INSULATOR * WASHER, flat, no. 10	28480	1200-0080	2
11 12	30310-00021 Coml	* STRAP, diode * NUT, plain, hexagon, no. 10-32 x	28480	30310-00021	1 1
13	1901-1036	* DIODE, rectifier, 12A, 100V (CR1 thru CR4) (Attaching Parts)	04713	MR881	4
	1200-0080 Coml	* INSULATOR * WASHER, flat, no. 10	28480	1200-0080	2
, '	30310-00021 Coml	* STRIP, diode * NUT, plain, hexagon, no. 10-32 x	28480	30310-00021	1 1
14	30310-20001	* HEAT SINK	28480	30310-20001	1
!					



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Figure 2-50. 5V/20V Rectifier Assembly (A6), Exploded View

Table 2-52. Deck Assembly (A8), Replaceable Parts

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
2-51-	30310-60014	DECK ASSEMBLY (A8) (61, figure 2-44)	28480	30310-60014	1
1	9100-2944	* CHOKE, filter (L1)	28480	9100-2944	1 1
	0.00 20	(Attaching Parts)	20.00	0.0020.1	•
	Coml	* SCREW, machine, no. 8-32, 0.500 in, pan head			4
	Coml	* WASHER, flat, no. 8			4
	Coml	* WASHER, split lock, no. 8			4
	Coml	* NUT, plain, hexagon, no. 8-32			4
2	0811-3147	x * RESISTOR, f×d, ww, 1.8 ohms, ±3% (R1) (Attaching Parts)	91637	RH25	1
	Coml	* SCREW, machine, no. 6-32, 0.375 in, pan head			2
	Coml	* WASHER, split lock, no. 6			2
	Coml	* NUT, plain, hexagon, no. 6-32			2
		x			_
3	30310-00020	* STRAP, copper, 125V (Attaching Parts)	28480	30310-00020	1
	Coml	* SCREW, machine, no. 10-32, 0.500 in, pan head			2
	Coml	* WASHER, split lock, no. 10			2
4	30310-00020	x * STRAP, copper, 125V	28480	30310-00020	1
		(Attaching Parts)			į
	Coml	* SETSCREW, no. 10-32, 0.750 in.			2
	Coml	* WASHER, split lock, no. 10			2
	Coml	* NUT, plain, hexagon, no. 10-32			2
5	0180-2494*	x * CAPACITOR, fxd, elect. 7800 μF, -10 +50%, 150 Vdcw	56289	36D782F150DF2ADQB	2
6	0180-2404*	(C4, C5) * CAPACITOR, fxd, elect, 13,000 µF, -10 +75F, 40 Vdcw (C2, C3)	56289	602D1936040BF2A	2
	Coml Coml Coml Coml	(Attaching Parts) * SCREW, machine, no. 10-32, 0.375 in, pan head * WASHER, split lock, no. 10 * SETSCREW, no. 10-32, 0.750 in. * NUT, plain, hexagon, no. 10-32			1 2 1 1
7	30310-00002	* STRAP, copper, 5V (Attaching Parts)	28480	30310-00002	1
	Comi	* SCREW, machine, no. 10-32, 0.500 in, pan head			1
	Coml	* WASHER, split lock, no. 10			2
	Coml	* SETSCREW, no. 10-32, 0.750 in.			1
	Coml	* NUT, plain, hexagon, no. 10			1
8	0180-2411*	x * CAPACITOR, fxd, elect, 22,000 μF, -10 +75%, 10 Vdcw (C7)	28480	602D2236010AF2A	1
	Coml	(Attaching Parts) * SCREW, machine, no. 10-32, 0.500 in, pan head			1
	Coml	* WASHER, split lock, no. 10			1
9	0180-2402*	* CAPACITOR, fxd, elect, 55,000 μF, -10 +75%, 10 Vdcw (C6)	56289	602D5536010BF2A	1
		(Attaching Parts)			1
	Coml	* SETSCREW, no. 10-32, 0.750 in.			1
	Coml	* WASHER, split lock, no. 10			1
	Coml	* NUT, plain, hexagon, no. 10			1
10	0180-2413*	* CAPACITOR, fxd, elect, 7500 μF, -10 +75%, 15 Vdcw (C8) (Attaching Parts)	56289	36D752G015AA2A	1
	Coml	* SCREW, machine, no. 10-32, 0.375 in, pan head	1		1
	Coml	* WASHER, split lock, no. 10 * SETSCREW no. 10-32, 0.750 in			2
	Coml Coml	* SETSCREW, no. 10-32, 0.750 in. * NUT, plain, hexagon, no. 10-32x			1 1

Table 2-52. Deck Assembly (A8), Replaceable Parts (Continued)

FIG & NDEX NO. HP PART NO.		PART NO. DESCRIPTION		MFR PART NO.	UNITS PER ASSY	
2-51-	00045 5554					
11	30310-00004	* STRAP, copper, 20V	28480	30310-00004	1	
	Coml	(Attaching Parts) * SCREW, machine, no. 10-32, 0.375 in, pan head			١.	
	Coml	* WASHER, split lock, no. 10			1	
	Coml	* SETSCREW, no. 10-32, 0.750 in.			2	
	Coml	* NUT, plain, hexagon, no. 10-32			1	
12	0180-2403*	x * CAPACITOR, fxd, elect, 19,000 μF, -10 +75%, 40 Vdcw (C9)	56289	602D193G040DF2A	1	
	0	(Attaching Parts)				
	Coml	* SETSCREW, no. 10			1	
	Coml	* WASHER, split lock, no. 10			1	
	Coml	* NUT, plain, hexagon, no. 10-32 x			1	
13	0180-2541*	* CAPACITOR, fxd, elect, 1800 μF, -10 +75%, 40 Vdcw (C14)	56289	602D182G040AA2A	1	
	Coml Coml	* SCREW, machine, no. 10-32, 0.375 in, pan head			1	
	Coml	* WASHER, split lock, no. 10			2	
	Coml	* SETSCREW, no. 10-32, 0.750 in. * NUT, plain, hexagon, no. 10-32			1	
		x			1	
14	0180-2414∗ Coml	* CAPACITOR, fxd, elect, 2900 µF, -10 +75%,40 Vdcw (C12) (Attaching Parts) * SCREW machine no. 10.33, 0.375 in people and	56289	36D292G040AA2A	1	
	Coml	00/1217, machine, no. 10-32, 0.375 m, pan nead			1	
	Coml	* WASHER, split lock, no. 10 * SETSCREW, no. 10-32, 0.750 in.			2	
	Coml	* NUT, plain, hexagon, no. 10-32			1	
		x			1	
15	0180-2416*	* CAPACITOR, fxd, elect, 9900 μF, -10 +75%, 30 Vdcw (C11) (Attaching Parts)	56289	602D992G030AF2A	1	
	Coml	* SCREW, machine, no. 10-32, 0.375 in, pan head			١.,	
	Coml	* WASHER, split lock, no. 10 ——— x———			1	
16	30310-60008*	* CAPACITOR BOARD ASSEMBLY (A1) (see figure 2-57)	28480	30310-60008	1	
ĺ	Coml	(Attaching Parts) * SCREW, machine, no. 6-32, 0.375 in, pan head			12	
.	4004 4005	x			12	
17	1901-1035	* DIODE, fxd, 100V, 12A (CR1) (Attaching Parts)	28480	1901-1035	1	
1	1200-0080	* INSULATOR	28480	1300 0000		
	Coml	* WASHER, flat, no. 8	20400	1200-0080	2 1	
	Coml	* SOLDER LUG, no. 8			1	
	Coml	* NUT, plain, hexagon, no. 8-32			1	
18	1853-0310	x * TRANSISTOR, Si, PNP (Q1, Q2) (Attaching Parts)	04713	2N4398	2	
	Coml	* SCREW, machine, no. 6-32, 0.625 in, pan head			2	
l	Coml	* SOLDER LUG, no. 6			1	
	1200-0043	* INSULATOR	28480	1200-0043	1	
40		x			·	
19	1200-0452	* SOCKET, transistor (XA1, XQ2) (Attaching Parts)	28480	1200-0452	2	
ļ	Coml	* SCREW, machine, no. 4-40, 0.500 in, flat head			,	
	Coml	* WASHER, flat, no. 4]		2	
	Coml	* WASHER, split lock, no. 4			2 2	
-	Comi	* NUT, plain, hexagon, no. 4-40			2	
Ì		x			_	

Table 2-52. Deck Assembly (A8), Replaceable Parts (Continued)

FIG & INDEX NO.	HP PART NO.	DESCRIPTION	MFR CODE	MFR PART NO.	UNITS PER ASSY
2-51- 20	9100-2943 Coml Coml	* CHOKE, filter (L2)	28480	9100-2943	1 1 1
21	30310-00018	* DECK, power supply	28480	30310-00018	1

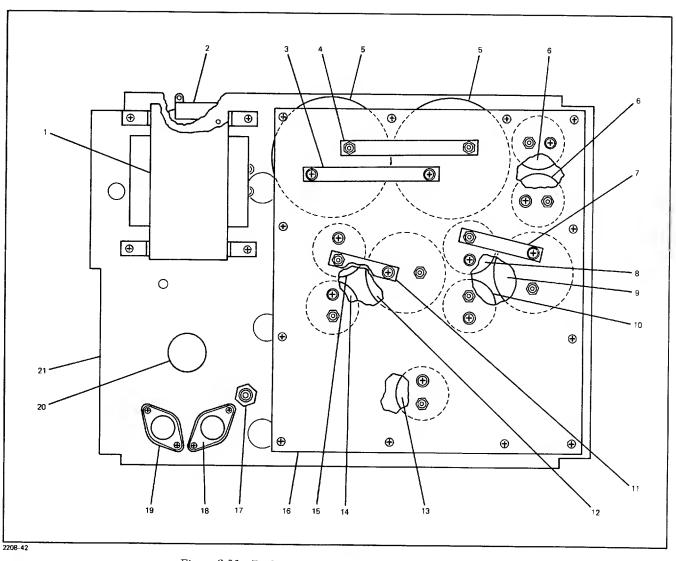


Figure 2-51. Deck Assembly (A8), Parts Location Diagram

Table 2-53. Preregulator Control PCA (A1), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1 A1C1 A1C2 A1C3 A1C4	30310-60002 0160-0157 0180-0291 0180-0195 0180-0291	1 1 4 1	PREREGULATOR CONTROL PCA C:FXO MY 0.0047 UF 10% 200VOCH C:FXO ELECT 1.0 UF 10% 35VOCH C:FXO ELECT 0.33 UF 20% 35VOCH C:FXO ELECT 1.0 UF 10% 35VOCH	28480 56289 56289 56289 56289	30310-600C2 192P47292-PTS 1500105X9035A2-0YS 1500334X0035A2-DYS 1500105X9035A2-0YS
A1C5 A1C6 A1C7 A1C8 A1C9	0160-0153 0160-2204 0180-0097 0180-0049 0160-0153	3 1 4 3	C:FXO MY 0.001 UF 10% 200VOCH C:FXO MICA 100PF 5% C:FXO TANT. 47 UF 10% 35VOCH C:FXO ELECT 20 UF +75-10% 50VOCH C:FXO MY 0.001 UF 10% 200VDCH	56289 72136 56289 56289 56289	192P10292-PTS R0M15F101J3C 1500476X9G3552-UYS 300206G350CC2-USM 192P10292-PTS
A1C10 A1C11 A1C12 A1C13 A1C14	0180-0197 0180-0197 0160-2940 0180-0197 0180-0373	6 1 1	C:FX0 ELECT 2.2 UF 10% 20V0CW C:FX0 ELECT 2.2 UF 10% 20V0CW C:FX0 MICA 470 PF 5% 300V0CW C:FX0 ELECT 2.2 UF 10% 20V0CW C:FX0 ELECT 0.68 UF 10% 35V0CW	56289 56289 72136 56289 56289	1500225X9020A2-0YS 1500225X9020A2-0YS R0M15F471J3C 1500225X9020A2-0YS 1500684X9035A2-0YS
AIC15 AIC16 AIC17 AIC18 AIC19	0150~0121 0150~0121 0180~1743 0160~0162 0160~0161	4 1 1 3	C:FXO CER 0.1 UF +80-20% 50VOCW C:FXO CER 0.1 UF +80-20% 50VDCW C:FXO ELECT 0.1 UF 10% 35VOCW C:FXO MY 0.022 UF 10% 200VDCW C:FXO MY 0.01 UF 10% 200VOCW	56289 56289 56289 56289 56289	5C508IS-CHL 5C508IS-CHL 1500104X9035A2-0YS 192P22392-PTS 192P10392-PTS
A1C20 A1C21 A1CR1 A1CR2 A1CR3	0180-0097 0180-0098 1901-0033 1901-0033	1 70	C:FXO TANT. 47 UF 10% 35VDCW C:FXO ELECT 100 UF 20% 20VDCW OIDDE:SILICON 100MA 180WV OIDDE:SILICON 100MA 180WV OIDDE:SILICON 100MA 180WV	56289 56289 07263 07263 07263	1500476X9C35S2-0YS 1500107X0020S2-0YS F03369 F03369 F03369
AICR4 AICR5 AICR6 AICR7 AICR8	1901-0033 1901-0460 1902-3171 1902-3171 1901-0033	2 2	OIODE:SILICON 100MA 180MV DIDDE:SILICON 3-JUNCTION STABISTOR DIDOE BREAKOCHN:11.0V 5% OIOOE BREAKOCHN:11.0V 5% OIDOE:SILICON 100MA 180MV	07263 03508 28480 28480 07263	F03369 \$78523 1902-3171 1902-3171 F03369
AICR9 AICR10 AICR11 AICR12 AICR13	1902-3139 1901-0033 1901-0159 1901-0159 1901-0033	2 18	DIODE:8REAKOUWN 8-25V 5% OIODE:SILICON 100MA 180WV OIODE:SILICON 0-75A 400PIV DIODE:SILICON 0-75A 400PIV OIODE:SILICON 100MA 180WV	04713 07263 04713 04713 07263	SZ10939-158 F03369 SR1358-4 SR1358-4 F03369
A1Q1 A1Q2 A1Q3 A1Q4 A1Q5	1854-0072 1853-0052 1854-0072 1853-0281 1854-0477	2 2 21 23	TSTR:SI NPN TSTR:SI PNP TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP TSTR:SI PNP	80131 80131 80131 80131 80131	2N3054 2N374C 2N3054 2N2907A 2N2222A
A1Q6 A1Q7 A1Q8 A1Q9 A1Q10	1854-0477 1854-0039 1854-0477 1854-0477 1853-0281	12	TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI PNP	80131 80131 80131 80131 80131	2N2222A 2N3053 2N2222A 2N2222A 2N2222A 2N2507A
A1R1 A1R2 A1R3 A1R4 A1R5	2100-1760 0757-0458 0757-0416 0757-0443 0757-0279	2 1 1 3 6	R:YAR WW 5K OHM 5% TYPE V 1W R:FXO MET FLM 51-1K OHM 1% 1/8W R:FXO MET FLM 511 OHM 1% 1/8W R:FXO MET FLM 11-0K OHM 1% 1/8W R:FXO MET FLM 3-16K OHM 1% 1/8W	28480 28480 28480 28480 28480	2100-1760 0757-0458 0757-0416 0757-0443 0757-0279
A1R6 A1R7 A1R8 A1R9 A1R10	0683-5655 0757-0444 0757-0279 0757-0442 0757-0465	1 1 27 7	R:FXO COMP 5-6 MEGOHM 5% 1/4W R:FXO MET FLM 12-1K OHM 1% 1/8W R:FXO MET FLM 3-16K OHM 1% 1/8W R:FXO MET FLM 10-0K OHM 1% 1/8W R:FXO MET FLM 100K OHM 1% 1/8W	01121 28480 28480 28480 28480	C8 5655 0757-0444 0757-0279 0757-0442 0757-0465
A1R11 A1R12 A1R13 A1R14 A1R16	0757-0440 0698-3452 0757-0459 0698-3155 0698-3155	1 4 1 12	R:FXO MET FLM 7-50K OHM 1% 1/8W R:FXD MET FLM 167K OHM 1% 1/8W R:FXO MET FLM 56-2K OHM 1% 1/8W R:FXO MET FLM 4-64K OHM 1% 1/8W R:FXO MET FLM 4-64K OHM 1% 1/8W	28480 2848C 2848C 28480 28480	0757-C440 0698-3452 0757-C459 0698-3155 0698-3155
A1R17 A1R18 A1R19 A1R20 A1R21	0757-0447 0698-3160 0757-0442 0757-0394 0757-0279	3 1 2	R:FXD MET FLM 16-2K OHM 1% 1/8W R:FXO MET FLM 31-6K OHM 1% 1/8W R:FXO MET FLM 10-0K OHM 1% 1/8W R:FXO MET FLM 51-1 OHM 1% 1/8W R:FXO MET FLM 3-16K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-C447 0698-3160 0757-0442 0757-0394 0757-0279
A1R22 A1R23 A1R24 A1R25 A1R26	0757-0401 0757-0394 0757-0401 0757-0274 0757-0274	8	R:FXO MET FLM 100 0HM 1% 1/8W R:FXO MET FLM 51-1 0HM 1% 1/8W R:FXO MET FLM 100 0HM 1% 1/8W R:FXO MET FLM 1-21K 0HM 1% 1/8W R:FXO MET FLM 1-21K 0HM 1% 1/8W	28480 28480 28480 28480 28480	0757-C401 0757-C394 0757-C401 0757-C274 0757-C274
A1R27 A1R28 A1R29 A1R30 A1R31	0683-0275 0698-3155 0698-3155 0698-3155 0757-0438	4 5	R:FXO COMP 2.7 DHM 5% 1/4H R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXO MET FLM 5.11K OHM 1% 1/8W	01121 28480 28480 28480 2848C	CB 2765 0698-3155 0698-3155 0698-3155 0757-C438

Table 2-53. Preregulator Control PCA (A1), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1R32 A1R33 A1R34 A1R35 A1R36 A1R37 A1R38 A1R39 A1R40 A1R41 A1R42 A1U1 A1U2 A1U3 A1U3 A1U4	0683-0275 0683-0275 0683-0275 0757-0279 0757-0288 0757-0442 0757-0442 0757-0442 0757-0465 0698-0083 0757-0465 0698-0069 1826-0069 1826-0069 1826-0069	1 11 5 1 3	R:FXO COMP 2.7 OHM 5% 1/4W R:FXO COMP 2.7 OHM 5% 1/4W R:FXO COMP 2.7 OHM 5% 1/4W R:FXO MET FLM 3.16K OHM 1% 1/8W R:FXO MET FLM 9.09K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 1.96K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W IC:LINEAR OPER. AMPL. IC:LINEAR OPER. AMPL. 1C:VOLTAGE REGULATOR PROGRAMMABLE 1C:LINEAR OPER. AMPL.	01121 01121 01121 28480 28480 28480 28480 28480 28480 28480 28480 12040 12040 07263 07263	CB 27G5 CB 27G5 CB 27G5 CB 27G5 O757-0279 O757-0288 O757-0442 O757-0279 0698-0083 O757-0465 0698-0083 LM301A0 LM301A0 U6A7723393 U6A7741393 LM301AD

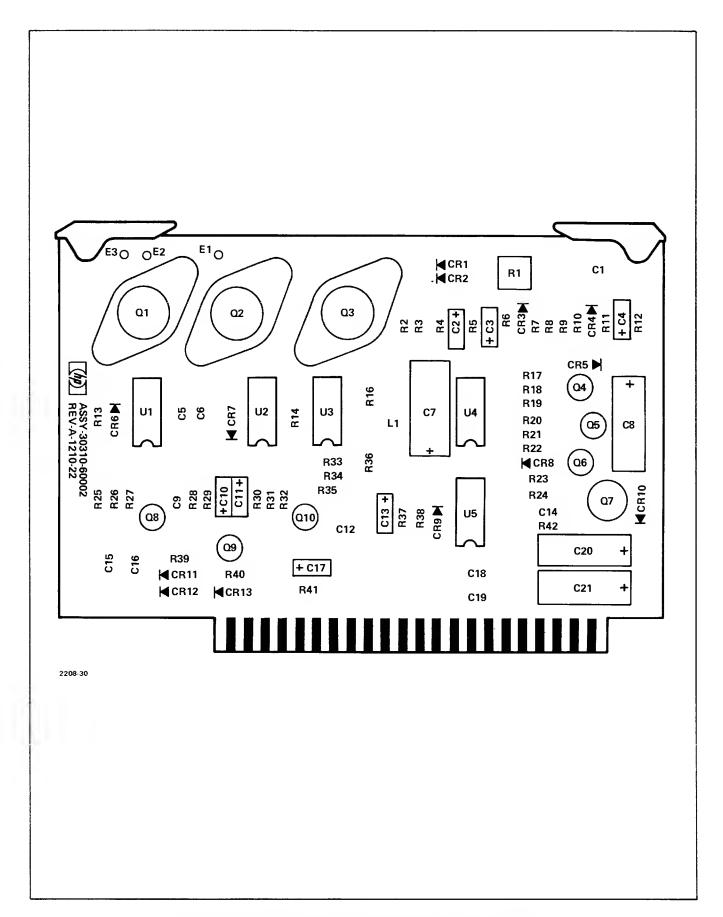


Figure 2-52. Preregulator Control PCA (A1), Parts Location Diagram

Table 2-54. Inverter Driver PCA (A2), Replaceable Parts

Reference Designation	P Part Number	Qty	Description	Mfr Code	Mfr Part Number
A2C1 A2C2 A2C3	30310-60003 0160-0194 0160-0194 D160-0161 0180-0100	1 4 7	INVERTER DRIVER PCA C:FXD MY 0.015 UF 10% C:FX0 MY 0.015 UF 10% C:FX0 MY 0.015 UF 10% 200VDCM C:FXD ELECT 4.7 UF 10% 35VDCW	28480 56289 56289 56289 56289	30310-60003 192P15392-PTS 192P15392-PTS 192P1032-PTS 150D475X903582-DYS
A2C6 A2C7 A2C8	0180-1746 0180-1746 0180-1746 0180-1746 1901-0033	7	C:FXD ELECT 15 UF 10% 20VOCW C:FXO ELECT 15 UF 10% 20VDCW C:FXD ELECT 15 UF 10% 20VDCW C:FXD ELECT 15 UF 10% 20VDCW 0100E:S1LICON 100MA 180WV	28480 28480 28480 28480 07263	0180-1746 0180-1746 0180-1746 0180-1746 F03369
A2CR3 A2CR4 A2CR4	1901-0033 1901-0033 1901-0033 1901-0033 1901-0033		DIDOE:SILICON 100MA 180WY DIODE:SILICON 100MA 180WY DIOOE:SILICON 100MA 180WY DIOOE:SILICON 100MA 180WY DIOOE:SILICON 100MA 180WY	07263 07263 07263 07263 07263	F03369 F03369 F03365 F03365 F03365
A2CR7 A2CR8 A2CR9	1901-0033 1901-0033 1901-0033 1901-0033 1854-0477		DIDGE:SILICON 100MA 180WV GIODE:SILICON 100MA 180WV DIDGE:SILICON 100MA 180WV DIDDE:SILICON 100MA 180WV TS7R:SI NPN	07263 07263 07263 07263 07263 80131	F03369 F03369 F03369 F03369 2N2222A
A2Q3 A2Q4 A2Q5	1854-0477 1854-0039 1854-0039 1854-0039 1854-0039		7STR:SI NPN 7S7R:SI NPN 7STR:SI NPN TSTR:SI NPN TSTR:SI NPN	80131 80131 80131 80131 80131	2N2222A 2N3053 2N3053 2N3053 2N3053
A2Q8 A2Q9 A2Q10	1854-0039 1854-0039 1854-0D39 1854-D039 D757-0397	2	7STR:S1 NPN TS7R:S1 NPN TSTR:S1 NPN 7S7R:S1 NPN R:FXD ME7 FLM 68.1 OHM 1% 1/8W	80131 80131 80131 80131 28480	2N3053 2N3053 2N3053 2N3053 2N3053 0757-0397
A2R3 A2R4 A2R5	0698-3155 0698-0085 0757-0280 0698-3449 0757-0438	2 21 5	R:FXO ME7 FLM 4-64K OHM 1% 1/8W R:FXD ME7 FLM 2.61K OHM 1% 1/8W R:FXD ME7 FLM 1K OHM 1% 1/8W R:FXD ME7 FLM 28-7K OHM 1% 1/8W R:FXO MET FLM 5-11K DHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3155 0698-0085 0757-0280 0698-3449 0757-0438
A2R8 A2R9 A2R10	0757-0280 0757-0280 0757-0397 0698-3438 0698-3438	4	R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K DHM 1% 1/8W R:FXO MET FLM 68-1 DHM 1% 1/8W R:FXO MET FLM 147 DHM 1% 1/8W R:FXO MET FLM 147 DHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0280 0757-0280 0757-0397 0698-3438 0698-3438
A2R13 (A2R14 (A2R15 (0698-3438 0757-0280 0698-3438 0698-3402 0698-3402	8	R:FXO MET FLM 147 OHM 1% 1/8W R:FXD MET FLM 1K OHM 1% 1/8W R:FXD MET FLM 147 DHM 1% 1/8W R:FXD MET FLM 316 DHM 1% 1/2W R:FXD MET FLM 316 DHM 1% 1/2W	28480 28480 28480 28480 28480	0698-3438 0757-0280 0698-3438 0698-3402 0698-3402
A2R18 A2R19 A2R20	0698-3402 0698-3402 0757-0280 0698-3402 0698-3402		R:FXD MET FLM 316 DHM 1% 1/2W R:FXD ME7 FLM 316 DHM 1% 1/2W R:FXD ME7 FLM 1K OHM 1% 1/8W R:FXD ME7 FLM 316 DHM 1% 1/2W R:FXD MET FLM 316 DHM 1% 1/2W	28480 28480 28480 28480 28480	0698-3402 0698-3402 0757-0280 0698-3402 0698-3402
A2R24 (A2R25 (0757-0280 0698-3402 0698-3402 0757-0280 1820-0141	1	R:FXD MET FLM 1K DHM 1% 1/8W R:FXD ME7 FLM 316 DHM 1% 1/2W R:FXD ME7 FLM 316 DHM 1% 1/2W R:FXO MET FLM 1K OHM 1% 1/8W IC:TTL QUAQ 2-1NP7 AND GA7E	28480 28480 28480 28480 04713	0757-0280 0698-3402 0698-3402 0757-0280 MC3001P
A2U3	1820-0077 1820-0054 1820-0256	1 1 1	IC:7TL DUAL O F/F IC:77L QUAD 2-INP7 NAND GATE IC:OTL QUAD 2-INPU7 POWER GATE	01295 01295 04713	SN7474N SN740CN MC858P
		7.7.00.00			

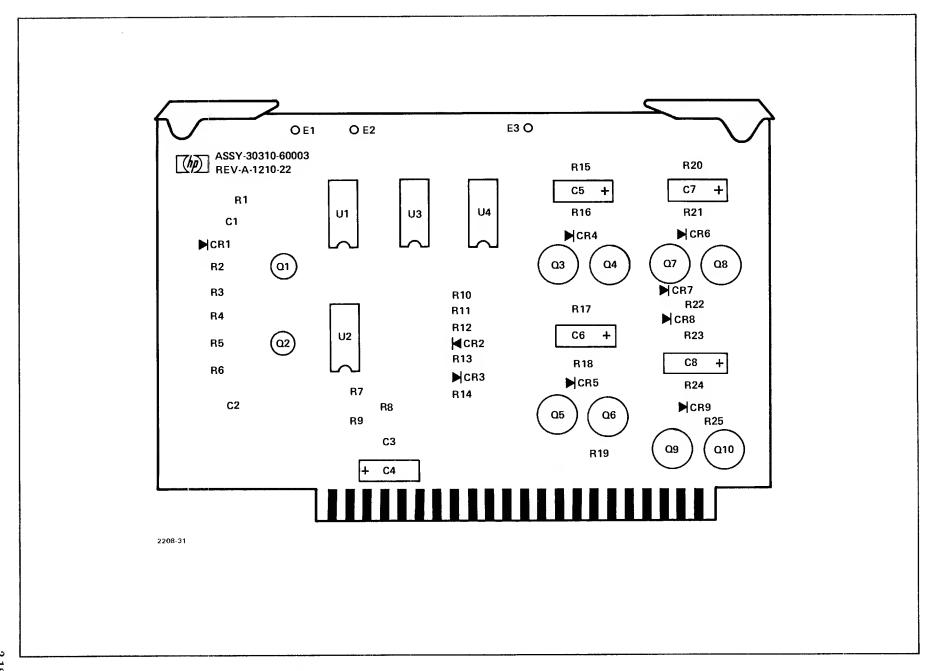


Table 2-55. 20 Volt Supply PCA (A3), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3 A3C1 A3C2 A3C3 A3C4	30310-60004 0160-0298 0180-0141 0180-0197 0180-0197	1 1 3	20 VOLT SUPPLY PCA C:FX0 MY 0.0015 UF 10% 200VOCW C:FX0 ELECT 50 UF +75-10% 50VOCW C:FX0 ELECT 2-2 UF 10% 20VDCW C:FX0 ELECT 2-2 UF 10% 20VDCW	28480 56289 56289 56289 56289	30310-60004 192P15292-PTS 30D506605 00D2-0SM 150D225X5C20A2-0YS 1500225X9020A2-0YS
A3C5 A3C6 A3C7 A3C8 A3C9	0160-0153 0180-0291 0160-0134 0160-2199 0160-2055	2 1 21	C:FXO MY 0.001 UF 10% 200VOCM C:FXD ELECT 1.0 UF 10% 35VDCM C:FXD MICA 220PF 5% 300VDCM C:FXO MICA 30 PF 5% 300VDCM C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 14655 28480 56285	192P10292-PTS 150D105X5035A2-DYS RDM15F221J3C 0160-2159 C023F101F103ZS22-CDH
A3C10 A3C11 A3C12 A3C14 A3C15	0160-0194 0180-1746 0180-0100 0160-0194 0160-0134		C:FXD MY 0.015 UF 10% C:FXD ELECT 15 UF 10% 20VDCW C:FXO ELECT 4.7 UF 10% 35VDCW C:FXO MY 0.015 UF 10% C:FXD MICA 220PF 5% 300VDCW	56289 28480 56289 56289 14655	192P15392-PTS 0180-1746 1500475X503582-DYS 192P15392-PTS ROM15F221J3C
A3C16 A3C18 A3C19 A3CR1 A3CR2	0160-0161 0180-1746 0180-1746 1901-0033 1902-3139		C:FXO MY 0.01 UF 10% 200VDCW C:FXO ELECT 15 UF 10% 20VDCW C:FXO ELECT 15 UF 10% 20VOCW DIDOE:SILICOM 100MA 180MV DIDOE:SREAKOOWN 8.25V 5%	56289 28480 28480 07263 04713	192P1D392-PTS 0180-1746 0180-1746 FD3369 SZ10939-158
A3CR3 A3CR4 A3CR5 A3CR6 A3CR7	1901-0033 1901-0033 1901-0033 1901-0033 1901-0033	ļ	DIODE:SILICDN 100MA 180WV 0100E:SILICDN 100MA 180WV 0100E:SILICON 100MA 180WV 010DE:SILICON 100MA 180WV 0100E:SILICON 100MA 180WV	07263 07263 07263 07263 07263	F03369 F03369 F03369 F03369 F03369
A3CR8 A3CR9 A3CR10 A3L2 A301	1901-0033 1901-0033 1901-0033 9100-1665 1853-0281	1	OIDOE:SILICOM 100MA 180WV OIOOE:SILICOM 100MA 180WV DIODE:SILICOM 100MA 180WV COIL/CHOKE 3300 UM 5% TSTR:SI PNP	07263 07263 07263 28480 80131	FD3369 FD3369 F03369 9100-1665 2M2907A
A3Q2 A3Q3 A3Q4 A3Q5 A3Q6	1854-0477 1854-0039 1853-0281 1854-0477 1853-0281		TSTR:S1 NPN TSTR:S1 NPN TSTR:S1 PNP TSTR:S1 PNP TSTR:S1 PNP TSTR:S1 PNP	80131 80131 80131 80131 80131	2N2222A 2N3053 2N2907A 2N2222A 2N2907A
A306 A307 A308 A309 A3010	1853-0281 1853-0281 1854-0477 1854-0039 1853-0281		TSTR:SI PMP TSTR:SI PMP TSTR:SI MPN TSTR:SI MPN TSTR:SI PMP	80131 80131 80131 80131 80131	2N2907A 2N2907A 2N2222A 2N3053 2N2907A
A3011 A3012 A3013 A3014 A3015	1854-0477 1853-0052 1853-0281 1854-0477 1854-0477		TSTR:SI MPN TSTR:SI PMP TSTR:SI PMP TSTR:SI MPN TSTR:SI MPN TSTR:SI MPN	80131 80131 80131 80131 80131	2N2222A 2M374C 2N2907A 2N2222A 2N2222A
A3RI A3R2 A3R3 A3R4 A3R5	0757-0465 2100-1757 0698-3156 0757-0465 0698-0084	1 6 7	R:FXO MET FLM 100K OHN 1% 1/8W R:VAR WW 500 DHM 5% TYPE V 1W R:FXO MET FLM 14.7K OHM 1% 1/8W R:FXO MET FLM 100K OHM 1% 1/8W R:FXO MET FLM 2.15K DHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0465 2100-1757 0698-3156 0757-0465 0698-0084
A3R6 A3R7 A3R8 A3R9 A3R10	D757-0442 0757-0442 0757-0346 0757-0280 0757-0407	1	R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXD MET FLM 10 OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 200 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0442 0757-0442 0757-0346 0757-0280 0757-0407
A3R11 A3R12 A3R13 A3R14 A3R15	0757-0416 0757-0278 0698-3153 0698-3153 0757-0443	1 3	R:FXO MET FLM 5110HM 1% 1/8W R:FXD MET FLM 1.78K OMM 1% 1/8W R:FXO MET FLM 3.83K OHM 1% 1/8W R:FXO MET FLM 3.83K OHM 1% 1/8W R:FXD MET FLM 11.0K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0416 0757-0278 0698-3153 0698-3153 0757-0443
A3R16 A3R17 A3R18 A3R19 A3R20	0698-3446 0757-0279 0698-3154 0698-3155 0757-0442	3 13	R:FXD MET FLM 383 DMM 1% 1/8W R:FXO MET FLM 3-16K OMM 1% 1/8W R:FXO MET FLM 4-22K DMM 1% 1/8W R:FXO MET FLM 4-64K OMM 1% 1/8W R:FXO MET FLM 10-0K OMM 1% 1/8W	28480 28480 28480 28480 28480	0698-3446 0757-0279 0698-3154 0698-3155 0757-0442
A3R21 A3R22 A3R23 A3R24 A3R25	0757-0442 0757-0439 0698-3155 0757-0442 0698-3156	3	R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 6.81K DMM 1% 1/8W R:FXO MET FLM 4.64K OHM 1% 1/8W R:FXD MET FLM 10.0K OHM 1% 1/8W R:FXD MET FLM 10.7K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0442 0757-0439 0698-3155 0757-0442 0698-3156
A3R26 A3R27 A3R28 A3R29 A3R30	0757-0442 0757-0442 0698-7398 0698-7398 0757-0465	2	R:FXD MET FLM 10-0K OMM 1% 1/8W R:FXO MET FLM 10-0K OHM 1% 1/8W R:FXO FLM 6-124K OMM 0-1% 1/8W R:FXO FLM 6-124K OMM 0-1% 1/8W R:FXO MET FLM 100K OMM 1% 1/8W	28480 28480 28480 28480 28480	0757-0442 0757-0442 0698-7398 0658-7398

Table 2-55. 20 Volt Supply PCA (A3), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A 3R 31 A 3R 32 A 3R 33 A 3R 34 A 3R 35 A 3R 36 A 3R 39 A 3R 41 A 3R 42 A 3R 42 A 3R 44 A 3U 1 A 3U 5	0757-0442 0698-0084 0757-0439 0757-0442 0757-0346 0683-1065 0811-2071 0757-0274 0811-1068 0698-3155 0698-3155 0698-3152 0698-0084 1826-0069	1 1 1 1	R:FXD ME7 FLM 10.0K OHM 1% 1/8W R:FXD MET FLM 6.8LK OHM 1% 1/8W R:FXD ME7 FLM 10.0K OHM 1% 1/8W R:FXO ME7 FLM 10.0K OHM 1% 1/8W R:FXO OMP 10M 0HM 5% 1/4W R:FXO WM 453 OHM 1% 3W R:FXO ME7 FLM 1.2LK OHM 1% 1/8W R:FXO ME7 FLM 4.64K OHM 1% 1/8W R:FXO ME7 FLM 4.64K OHM 1% 1/8W R:FXO ME7 FLM 2.15K OHM 1% 1/8W R:FXO ME7 FLM 2.15K OHM 1% 1/8W IC:LINEAR OPER. AMPL. IC:LINEAR OPER. AMPL.	28480 28480 28480 28480 01121 28480 28480 28480 28480 12040 12040	0757-0442 0698-0084 0757-0442 0757-0346 C8 1065 0811-2071 0757-0274 0698-3155 0698-3155 0698-3152 0698-0084 LM301A0 LM301A0

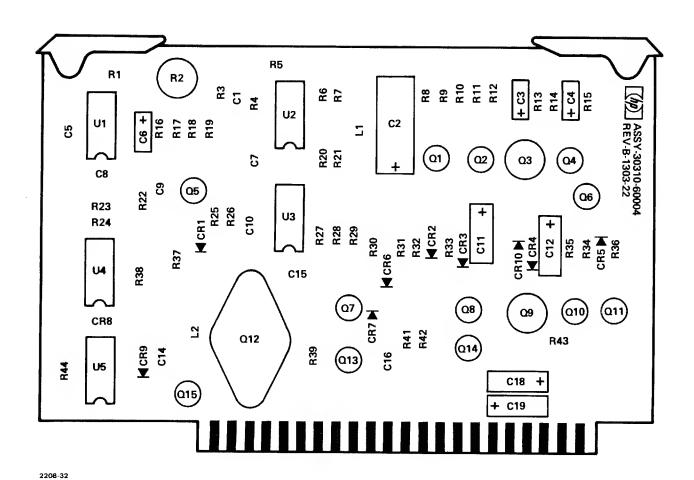


Figure 2-54. 20 Volt Supply PCA (A3), Parts Location Diagram

Table 2-56. Current Limit PCA (A4), Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4	30 31 0-60D05	1	CURRENT LIMIT PCA	28480	30310-60005
A4C1	0160-2055		C:FXD CER 0.01 UF +80-20% 100VDCW	56289	C023F101F103ZS22-CDH
A4C2 A4C3 A4C4 A4C5 A4C6	0160-0128 0160-2055 0160-2055 0160-0128 0180-0374	4	C:FXD CER 2-2 UF 20% 25YDCW C:FXO CER 0-01 UF +80-20% 100VDCW C:FXD CER 0-01 UF +80-20% 100VDCW C:FXD CER 2-2 UF 20% 25YDCW C:FXO TANT. 10 UF 10% 20VDCW	56289 56289 56289 56289 56289	5C152C2S-CML C023F101F103ZS22-CDH C023F101F103ZS22-CDH 5C152C2S-CML 150D106X902082-DYS
A4C7 A4C8 A4C9 A4C10 A4C11	0160-2055 0160-2055 0180-0097 0160-0128 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO TANT. 47 UF 10% 35VDCW C:FXO CER 2.2 UF 20% 25VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-CDH C023F101F103ZS22-CDH 150D476X9035S2-DYS 5C152C2S-CML C023F101F103ZS22-CDH
A4C12 A4C13 A4C14 A4C15 A4C16	0160-0128 0180-0049 0180-0049 0180-0374 0180-0374		C:FXD CER 2-2 UF 20% 25VDCW C:FX0 ELECT 20 UF +75-10% 50VOCW C:FXD ELECT 20 UF +75-10% 50VDCW C:FXD TANT. 10 UF 10% 20VDCW C:FXD TANT. 10 UF 10% 20VOCW	56289 56289 56289 56289 56289	5C152C2S-CML 300206G050CC2-DSM 300206G05GCC2-DSM 15GD106X9C2082-DYS 150D106X902082-DYS
A4C17 A4C18 A4C19 A4C20 A4C21	0180-0376 0160-2055 0180-0376 0180-0376 0160-2055	4	C:FXD ELECT 0.47 UF 10% 35VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 0.47 UF 10% 35VOCW C:FXD ELECT 0.47 UF 10% 35VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	150D474X9G35A2-DYS C023F101F103ZS22-CDH 150D474X9G35A2-DYS 150D474X9G35A2-DYS C023F101F103ZS22-CDH
A4C22 A4CR1 A4CR2 A4CR3 A4CR4	0180-0376 1902-3290 1901-0033 1901-0033	2	C:FXD ELECT 0.47 UF 10% 35VDCW DIDDE 8REAKDDWN:SILICON 31.6V 5% DIODE:SILICON 100MA 180WV DIDDE:SILICON 100MA 180WV DIODE:SILICON 100MA 180WV	56289 28480 07263 07263 07263	150D474X9C35A2-DYS 19C2-3290 FD3369 FD3369 FD3369
A4CR5 A4CR6 A4CR7 A4CR8 A4CR9	1901-0033 1902-0072 1990-0327 1901-0033 1901-0033	1	DIODE:SILICON 100MA 180MV DIODE:BREAKDOWN 2% 7-87V 400MW DIODE:LIGHT EMITTER DIODE:SILICON 100MA 180MV DIODE:SILICON 100MA 180MV	D7263 28480 28480 07263 07263	FD3369 1902-0D72 1990-0327 FD3369 FD3369
A4CR10 A4CR11 A4CR12 A4CR13 A4CR14	1902-3290 1901-0033 1901-0033 1901-0033 1901-0033		DIODE BREAKDDWN:SILICON 31.6V 5% DIDOE:SILICON 100MA 18DWV DIODE:SILICON 1D0MA 18DWV DIODE:SILICON 100MA 18DWV DIDDE:SILICON 100MA 18DWV	28480 07263 07263 07263 07263	1902-3290 FD3369 FD3369 FD3369 FD3369
A4CR15 A4CR16 A4CR17 A4CR18 A4CR19	1901-0033 1901-0033 1901-0033 1901-0033 1901-0033		OIDGE:SILICDN 100MA 180WV OIDDE:SILICON 100MA 180WV OIDGE:SILICON 100MA 180WV OIDGE:SILICON 100MA 180WV OIOGE:SILICDN 100MA 180WV	D7263 07263 07263 07263 07263	FD3369 FD3369 FD3369 FD3369 FD3369
A4CR20 A4CR21 A4L1 A4L2 A4O1	1902-3149 1901-0033 9140-0131 9140-0131 1853-0281	1	DIDGE BREAKODWN:9.09V 5% DIDGE:SILICDN 100MA 180WV COIL:FXO RF 10 MH COIL:FXO RF 10 MH TSTR:SI PNP	2848C 07263 28480 28480 80131	1902-3149 F03369 9140-0131 9140-0131 2N2907A
A4Q2 A4Q3 A4Q4 A4Q5 A4Q6	1854-0477 1854-0477 1854-0477 1853-D281 1854-0477		TSTR:SI NPN TSTR:SI NPN TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP TSTR:SI PNP	80131 80131 80131 80131 80131	2N2222A 2N2222A 2N2222A 2N2907A 2N2222A
A4Q7 A4Q8 A4R1 A4R2 A4R3	1854-0477 1853-0281 0757-0442 0757-0466 0757-0464	2 8	TSTR:SI NPN TSTR:SI PNP R:FXD MET FLM 10.0K DHM 1% 1/8W R:FXD MET FLM 110K OHM 1% 1/8W R:FXD MET FLM 90.9K OHM 1% 1/8W	80131 80131 28480 28480 28480	2N2222A 2N2907A 0757-C442 0757-C466 0757-0464
A4R4 A4R5 A4R6 A4R7 A4R8	C698-0084 0698-0085 0757-0418 0698-3447 0698-3162	1 1 3	R:FXD HET FLM 2.15K OHM 1% 1/8W R:FXD HET FLM 2.61K DHM 1% 1/8W R:FXD HET FLM 619 OHM 1% 1/8W R:FXD HET FLM 422 OHM 1% 1/8W R:FXO HET FLM 422 OHM 1% 1/8W	28480 28480 28480 2848D 28480	0698-0084 D698-0085 0757-0418 0698-3447 D698-3162
A4R9 A4R10 A4R11 A4R12 A4R13	0698-3157 0698-3136 '0698-3162 2100-1760 0698-3456	1 2 1	R:FXD MET FLM 19.6K CHM 1% 1/8W R:FXD MET FLM 17.8K CHM 1% 1/8W R:FXD MET FLM 46.4K CHM 1% 1/8W R:VAR HW 5K CHM 5% TYPE V 1W R:FXD MET FLM 287K DHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3157 0698-3136 0698-3162 2100-1760 D698-3456
A4R14 A4R15 A4R16 A4R17 A4R18	0757-0405 0757-0464 0698-3460 0698-3451 0757-0461	1 1 2 8	R:FXD MET FLM 162 OHM 1% 1/8W R:FXD MET FLM 9D.9K DHM 1% 1/8W R:FXD MET FLM 422K OHM 1% 1/8W R:FXD MET FLM 133K OHM 1% 1/8W R:FXD MET FLM 68.1K DHM 1% 1/8W	28480 28480 28480 28480 28480	0757-C405 0757-C464 0659-3460 0698-3451 0757-C461

Table 2-56. Current Limit PCA (A4), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4R19 A4R2D A4R21 A4R22 A4R23	0757-D464 0757-0465 0757-0464 0757-0442 D698-3156		R:FXO ME7 FLM 90.9K OHM 1% 1/8H R:FXO ME7 FLM 100K OHM 1% 1/8W R:FXD ME7 FLM 90.9K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 14.7K OHM 1% 1/8W	28480 28480 28480 28480	D757-0464 0757-0465 0757-0464 0757-0442
A4R24 A4R25 A4R26 A4R27 A4R27	0698-3153 0698-3156 0698-3453 0698-3453 0698-0084	2	R:FXO MET FLM 14-7K OHM 1% 1/8W R:FXO MET FLM 14-7K OHM 1% 1/8W R:FXO MET FLM 196K OHM 1% 1/8W R:FXO MET FLM 196K OHM 1% 1/8W R:FXO MET FLM 196K OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0698-3156 0698-3153 0698-3156 D698-3453 0698-3453 0698-0684
A4R29 A4R30 A4R31 A4R32 A4R33	0698-0084 0757-0873 0757-0442 0757-0442 0757-0442	1	R:FXO MET FLM 2.15K OHM 1% 1/8W R:FXO MET FLM 1.62K OHM 1% 1/2W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W R:FXO MET FLM 10.0K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-0084 0757-0873 0757-0442 0757-0442
A 4R 34 A 4R 35 A 4R 36 A 4R 37 A 4R 38	0698-3162 0757-0466 0757-0464 0698-3150 D698-3451	1	R:FXO MET FLM 46.4K CHM 1% 1/8W R:FXO MET FLM 110K CHM 1% 1/8W R:FXO MET FLM 90.9K CHM 1% 1/8W R:FXO MET FLM 2.37K CHM 1% 1/8W R:FXO MET FLM 133K CHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3162 0757-0466 0757-0464 0698-3150 0698-3451
A4R39 A4R4D A4R41 A4R42 A4R43	0757-0464 D698-3243 0757-0442 0757-0467 0757-0464	1 2	R:FXO ME7 FLM 90.9K OHM 1% 1/8W R:FXO ME7 FLM 178K OHM 1% 1/8W R:FXD MET FLM 10.0K OHM 1% 1/8W R:FXD MET FLM 121K OHM 1% 1/8W R:FXO ME7 FLM 90.9K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0464 0698-3243 0757-0462 0757-0467 0757-0464
A4R44 A4R45 A4R46 A4R47 A4R48	0757-0461 0698-3260 0757-0465 0757-0464 0757-0460	6	R:FXO ME7 FLM 68-1K OHM 1% 1/8W R:FXD MET FLM 464K OHM 1% 1/8W R:FXO ME7 FLM 100.5K OHM 1% 1/8W R:FXD ME7 FLM 90.9K OHM 1% 1/8W R:FXO ME7 FLM 61.9K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0461 0698-3260 0757-0465 0757-0464 0757-0460
A4R49 A4R50 A4R51 A4R52 A4R53	D757-0467 0757-0280 0757-0280 0698-0084 0757-0461		R:FXO MET FLM 121K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 2.15K OHM 1% 1/8W R:FXO MET FLM 68.1K OHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0467 0757-0280 0757-0280 0698-0084 0757-0461
A4R54 A4R55 A4R56 A4R57 A4R58	0757-028D 0757-0280 0757-0199 D757-0280 0757-0280	1	R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 21.5K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W R:FXO MET FLM 1K OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-D280 0757-0280 0757-0199 0757-0280 0757-028D
A4R59 A4R60 A4R61 A4R62 A4S1	0811-2031 0811-2031 0698-3446 0698-3446 3101-1819	2 3 1	R:FXO WW 815 OHM 3% 1/4W R:FXO WW 815 OHM 3% 1/4W R:FXO MET FLM 383 OHM 1% 1/8W R:FXO MET FLM 383 OHM 1% 1/8W SWI7CH:PUSH8UTTON	28480 28480 2848D 28480 28480	0811-2031 0811-2031 0698-3446 0698-3446 3101-1819
A4U1 A4U2 A4U3 A4U4 A4U5	1826-0D70 1826-0070 1826-01DD 1826-D100 1826-0100	6	IC:LIMEAR OPER. AMPL. IC:LIMEAR OPER. AMPL. OPERATIONAL AMPLIFIER, DUAL OPERATIONAL AMPLIFIER, DUAL OPERATIONAL AMPLIFIER, DUAL	07263 07263 28480 28480 28480	U6A7741393 U6A7741393 1826-0100 1826-0100 1826-0100

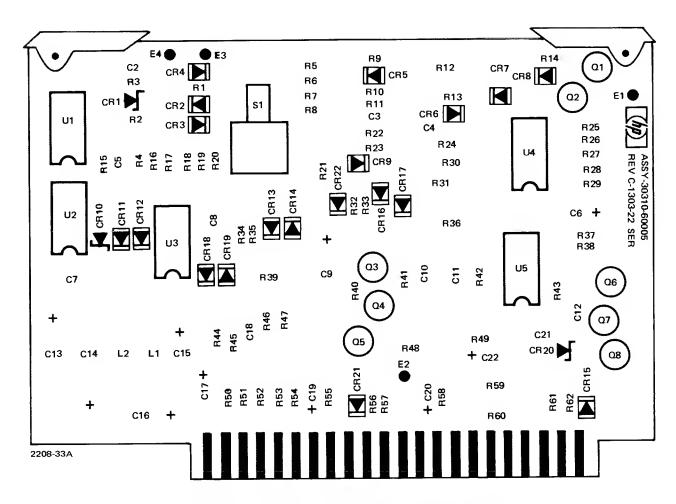


Figure 2-55. Current Limit PCA (A4), Parts Location Diagram

Table 2-57. Voltage Protect PCA (A5), Replaceable Parts

Reference Designation	HP Part Number	Ωty	Description	Mfr Code	Mfr Part Number
A5 A5C1 A5C2 A5C3 A5C4	3D310-6DD06 0180-0100 0180-0100 D160-2055 0160-2143	1	VOLTAGE PROTECT PCA C:FXO ELECT 4.7 UF 10% 35VDCW C:FXD ELECT 4.7 UF 10% 35VDCW C:FXD CER 0.01 UF +80-20% 1000VDCW C:FXD CER 20D0 PF +80-20% 1000VDCW	28480 56289 56285 56289 91418	30310-60006 1500475X903582-DYS 1500475X903582-OYS C023F1D1F103ZS22-COH TYPE 8
A5C5 A5C6 A5C7 A5C8 A5C9	D160-2147 D180-0197 0180-0100 0170-0040 0180-0097	1	C:FXO CER 0.025 UF +80-20% 100V0CW C:FXO ELECT 2.2 UF 10% 20V0CW C:FXO ELECT 4.7 UF 10% 35V0CW C:FXO MY 0.047 UF 10% 200V0CW C:FXO TANT. 47 UF 10% 35V0CW	91418 56289 56289 56289 56289	TA 1500225X9020A2-DYS 1500475X903582-DYS 192P47392-PTS 1500476X9C35S2-DYS
A5C10 A5C11 A5C12 A5C13 A5C14	0180-0161 0160-2055 0180-0291 0160-2055 0160-2055	1	C:FXO ELECT 3.3 UF 2D% 35VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD ELECT 1.0 UF 10% 35V0CW C:FXD CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	1500335X003582-0YS CD23F101F103Z522-CDH 150D105X9035A2-0YS C023F101F103Z522-CDH C023F101F103Z522-CDH
A5C15 A5C16 A5C17 A5C18 A5C19	0180-0100 0160-2055 0160-2055 0180-0100 0160-2055		C:FXD ELECT 4.7 UF 10% 35VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 4.7 UF 10% 35VOCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	1500475X903582-0YS CC23F101F103X522-CDH C023F101F103X522-CDH 15GD475X5G3582-0YS C023F101F103X522-CDH
A5C 20 A5C 21 A5C 22 A5C 23 A5C 24	0160-2055 D160-2055 0160-2055 0160-2055 D160-2055		C:FXO CER 0-01 UF +80-20% 100VDCW C:FXO CER 0-01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-CDH
A5CR1 A5CR2 A5CR3 A5CR4 A5CR5	19D1-D033 1901-0033 1902-0033 1902-3070 19D2-3193	1 1 2	0100E:SILICON 100MA 180WV 0100E:SILICON 100MA 180WV 0100E:BREAKODWN 6-2V 0100E:BREAKODWN 4-22V 5% 0100E BREAKODWN:13-3V 5%	07263 07263 04713 04713 28480	FD3369 FD3369 1N623 SZ10939-74 1902-3193
A5CR6 A5CR7 A5CR8 A5CR9 A5CR10	1902-3193 1901-0033 1902-0025 1901-0033 1901-0050	1	DIOOE 8REAKOOWN:13.3V 5% DIDOE:SILICON 1DOMA 180WV DIOOE.8REAKOOMN:10.0V 5% 400 MW DIDOE:SILICON 100MA 18DWV OIODE:SI 200 MA AT 1V	28480 07263 28480 07263	1902-3193 FD3369 1902-0D25 F03369 F0A 6308
A5CR11 A5CR12 A5CR13 A5CR14 A5CR15	1901-0033 1901-0033 1901-0033 1901-0033 1901-0033		OIODE:SILICON 100MA 180WV OIDDE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV	07263 07263 07263 07263 07263	FD3369 F03369 F03369 F03369 F03369
A5CR16 A5CR17 A5CR18 A5CR19 A5CR2D	1901-0033 1901-0033 1901-0033 1901-0033 1901-0033		OLDOE:SILICON 100MA 180WV OLOOE:SILICON 100MA 180WV OLODE:SILICON 100MA 180WV OLOOE:SILICON 100MA 180WV DIDOE:SILICON 100MA 180WV	07263 07263 07263 07263 07263	F03369 F03369 F03369 F03369 F03369
A5CR 21 A5CR 22 A5CR 23 A5CR 24 A5CR 25	1902-3245 1901-0033 1901-0033 1901-0033 1901-0033	1	OIOOE 8REAKOOWN:SILICON 21.5V 5% OIDOE:SILICON 100MA 180WV OIODE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV	28480 07263 07263 07263 07263	1902-3245 F03369 F03369 F03369 FD3369
A5CR26 A5CR27 A5CR28 A5CR29 A5CR30	1901-0033 1901-0033 1901-0033 1901-0033 1901-0033		OIDOE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV OIGOE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV	07263 07263 07263 07263 07263	F03369 F03369 F03369 F03369
A5CR31 A5CR32 A5CR33 A5CR34 A5CR35	1901-0033 1901-0033 1901-0033 1901-D033 1901-D460		OIOOE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV OIOOE:SILICON 100MA 180WV OIOOE:SILICON 3-JUNCTION STA8ISTOR	07263 07263 07263 07263 03508	F03369 F03369 F03369 F03369 ST8523
A5CR36 A5CR37 A5CR38 A5O1 A5Q2	1901-0159 1901-0159 1901-0033 1853-0281 1853-0281		OIDOE:SILICDN 0.75A 400PIV OIOOE:SILICON 0.75A 400PIV OIOOE:SILICDN 100HA 180WV TSTR:SI PNP TSTR:SI PNP	04713 04713 07263 80131 80131	SR1358-4 SR1358-4 F03369 2N2907A 2N2907A
A503 A504 A505 A506 A507	1854-0477 1853-0281 1854-0477 1854-0477 1853-0281		TSTR:SI NPN TSTR:SI PNP TSTR:SI NPN TSTR:SI NPN TSTR:SI PNP	80131 80131 80131 80131 80131	2N2222A 2N2907A 2N2222A 2N2222A 2N2222A 2N2907A
A508 A509 A5010 A5011 A5012	1854-0477 1853-0281 1853-0281 1853-0281 1853-0281		TSTR:SI NPN TSTR:SI PNP TSTR:SI PNP TSTR:SI PNP TSTR:SI PNP	80131 80131 80131 80131 80131	2N2222A 2N2907A 2N2907A 2N2907A 2N2907A

Table 2-57. Voltage Protect PCA (A5), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5Q13	1854-0477		757R:S1 NPN	80131	2N2222A
A5Q14	1853-0281		75TR:S1 PNP	80131	2N2907A
A5Q15	1854-0477		757R:S1 NPN	80131	2N2222A
A5Q16	1854-0039	1	TS7R:S1 NPN	80131	2N3053
A5R1	2100-2522		R:VAR CERMET 10K OHM 10% LIN 1/2W	28480	2100-2522
A 5R2 A 5R2 A 5R3	2100-2574 06 0698-3161	1 1 3	R: FXD ME7 FLH 38.3K DHH 1% 1/8W	28480 28480	2100 - 2574 0698-3161
A5R4	0698-3440	1	R:FXD HET FLM 196 DHM 1% 1/8W	28480	0698-3440
A5R5	0698-0083		R:FXO HE7 FLH 1-96K DHM 1% 1/8W	28480	0698-0083
A5R6	0757-0442	1	R:FXD MET FLM 10-0K.OHM 1% 1/8W	28480	C757-C442
A5R7	0698-0083		R:FXD ME7 FLM 1-96K OHM 1% 1/8W	28480	C698-DC83
A5R8	0698-3446		R:FXD HE7 FLM 383 DHM 1% 1/8W	28480	C698-3446
A5R9	0757-0442		R:FXO HE7 FLM 10-0K DHM 1% 1/8W	28480	C757-0442
A5R10	0757-0485		R:FXO HE7 FLM 681K DHM 1% 1/8W	28480	C757-C485
A5R11	0757-0442		R:FXD HE7 FLM 10.0K CHM 1% 1/8W	28480	0757-0442
A5R12	0757-0461		R:FXO ME7 FLH 68.1K DHM 1% 1/8W	28480	0757-0461
A5R13	D698-3449		R:FXO ME7 FLM 28.7K DHH 1% 1/8W	28480	0698-3449
A5R14	0757-0442		R:FXD HE7 FLH 10.0K CHM 1% 1/8W	26480	0757-0442
A5R15	0698-3154		R:FXD ME7 FLH 4.22K DHH 1% 1/8W	28480	0698-3154
A5R16	0757-0442	1	R:FXO ME7 FLM 10.0K DHH 1% 1/8W	28480	0757-0442
A5R17	0698-0083		R:FXD HE7 FLM 1.96K DHM 1% 1/8W	28480	0698-0083
A5R18	0698-0082		R:FXO HE7 FLH 464 DHH 1% 1/8W	28480	0698-0082
A5R19	0757-0280		R:FXO ME7 FLH 1K DHH 1% 1/8W	28480	D757-0280
A5R20	0757-0280		R:FXD HE7 FLH 1K DHH 1% 1/8W	28480	0757-0280
A5R21	0757-0280		R:FXD ME7 FLH 1K DHH 1% 1/8W	28480	0757-0280
A5R22	0757-0442		R:FXO ME7 FLH 10.0K DHH 1% 1/8W	28480	0757-0442
A5R23	0698-3154		R:FXO MET FLM 4.22K OHM 1% 1/8W	28480	0698-3154
A5R24	0698-0083		R:FXO ME7 FLH 1.96K DHM 1% 1/8W	28480	0698-0083
A5R25	0757-0438		R:FXD ME7 FLM 5.11K OHH 1% 1/8W	28480	0757-0438
A5R26	0757-0421	1	R:FXD HE7 FLH 825 DHH 1% 1/8W	28480	0757-0421
A5R27	0698-0083		R:FXO ME7 FLM 1.96K DHH 1% 1/8W	28480	0698-0083
A5R28	0698-3444		R:FXD HE7 FLH 31-0 DHH 1% 1/8W	28480	0698-3444
A5R29	0698-0083		R:FXD HE7 FLM 1.96K DHM 1% 1/8W	28480	6698-0083
A5R30	0757-0439		R:FXD ME7 FLM 6.81K OHM 1% 1/8W	28480	0757-0439
A5R31	0698-0083		R:FXD HE7 FLM 1-96K OHM 1% 1/8W	28480	0698-0083
A5R32	0698-3155		R:FXO ME7 FLH 4-64K DHM 1% 1/8W	28480	0698-3155
A5R33	0757-0442		R:FXD HE7 FLH 10-0K DHH 1% 1/8W	28480	0757-0442
A5R34	0757-0401		R:FXD ME7 FLM 1DO OHM 1% 1/8W	28480	0757-0401
A5R35	D757-0401		R:FXD HE7 FLH 100 DHM 1% 1/8W	28480	0757-0401
A 5R 36	0757-0274	1	R:FXD HE7 FLH 1-21K OHH 1% 1/8W	2848D	0757-0274
A 5R 37	0757-0401		R:FXD ME7 FLH 100 OHH 1% 1/8W	28480	0757-0401
A 5R 38	0698-0083		R:FXD HE7 FLM 1-96K DHM 1% 1/8W	28480	0698-0083
A 5R 39	0698-3457		R:FXD MET FLM 316K DHH 1% 1/8W	28480	0698-3457
A 5R 40	0757-0461		R:FXD HE7 FLM 68-1K OHH 1% 1/8W	28480	0757-0461
A5R41	0698-3449		R:FXD HET FLH 28.7K OHH 1% 1/8W	28480	0698-3449
A5R42	0698-3156		R:FXD HET FLM 14.7K OHM 1% 1/8W	28480	0698-3156
A5R43	0698-3260		R:FXD HE7 FLH 464K DHH 1% 1/8W	28480	0698-3260
A5R44	0698-3161		R:FXO HE7 FLH 38.3K DHH 1% 1/8W	28480	0698-3161
A5R45	0757-0461		R:FXO MET FLH 68.1K OHM 1% 1/8W	28480	0757-0461
A5R46	0757-0461		R:FXO HE7 FLH 68.1K DHM 1% 1/8W	28480	0757-C461
A5R47	0698-3452		R:FXO HE7 FLM 147K DHH 1% 1/8W	28480	0698-3452
A5R48	0698-3260		R:FXD HET FLM 464K DHM 1% 1/8W	28480	0698-3260
A5R49	0698-3260		R:FXD HE7 FLH 464K DHH 1% 1/8W	28480	0698-3260
A5R50	0757-0280		R:FXD HE7 FLH 1K OHH 1% 1/8W	28480	D757-0280
A5R51	0698-3452		R:FXD HE7 FLM 147K DHH 1% 1/8W	28480	0698-3452
A5R52	0757-0461		R:FXO ME7 FLM 68.1K DHM 1% 1/8W	28480	0757-0461
A5R53	0698-3449		R:FXD ME7 FLM 28.7K DHM 1% 1/8W	28480	0698-3449
A5R54	0698-3449		R:FXO MET FLM 28.7K DHH 1% 1/8W	28480	0698-3449
A5R55	0698-3260		R:FXD HET FLM 464K DHH 1% 1/8W	28480	0698-3260
A5R56	0698-3260	1	R:FXD MET FLM 464K OMM 13 1/8W	28480	9698-3260
A5R57	0698-3452		R:FXD HET FLM 147K OHM 13 1/8W	28480	669-3452
A5R58	0757-0280		R:FXD MET FLM 1K OHM 13 1/8W	28480	0757-0280
A5R59	0757-0462		R:FXD MET FLM 75_0K DHM 13 1/8W	28480	0757-0462
A5R60	0698-0083		R:FXD HET FLM 1.96K OHM 13 1/8W	28480	G698-0083
A5R61 A5R62 A5R63 A5R64 A5R65	0698-3158 D698-3151 C698-3154 0757-0442 0757-0443	3 2	R:FXD HE7 FLH 23.7K OHH 1% 1/8W R:FXD HE7 FLM 2.87K DHM 1% 1/8W R:FXO ME7 FLH 4.22K DHH 1% 1/8W R:FXD HE7 FLH 10.0K OHH 1% 1/8W R:FXD HE7 FLH 11.0K OHM 1% 1/8W	2848C 2848C 2848C 2848C 2848C	0698-3158 0698-3151 0698-3154 0757-0442 0757-0443
A5R66	0698-3154		R:FXO ME7 FLM 4-22K OHM 1% 1/8W	28480	0698-3154
A5R67	0698-3154		R:FXD HE7 FLM 4-22K OHM 1% 1/8W	28480	0698-3154
A5R68	0698-3156		R:FXO HE7 FLM 17-8K DHH 1% 1/8W	28480	0698-3136
A5R69	0698-3156		R:FXD ME7 FLH 14-7K DHM 1% 1/8W	28480	0698-3156
A5R70	0698-3154		R:FXD ME7 FLM 4-22K DHH 1% 1/8W	28480	0698-3154

Table 2-57. Voltage Protect PCA (A5), Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5R71 A5R72 A5R73 A5R74 A5R75	0698-3154 0698-3158 0757-0447 0698-3154 0698-3154	1	R:FXD MET FLM 4-22K DHN 1% 1/8W R:FXD MET FLM 23.7K DHM 1% 1/8W R:FXD MET FLM 16-2K OHM 1% 1/8W R:FXD MET FLM 4-22K OHM 1% 1/8W R:FXD MET FLM 4-22K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3154 0698-3158 0757-0447 0698-3154 0698-3154
A5R76 A5R77 A5R78 A5R79 A5R80	0757-0200 0698-3155 0698-3154 D757-0438 0757-0401	1	R:FXD MET FLM 5-62K DHM 1% 1/8W R:FXD MET FLM 4-64K DHM 1% 1/8W R:FXD MET FLM 4-22K DHM 1% 1/8W R:FXD MET FLM 5-11K OHM 1% 1/8W R:FXD MET FLM 100 DHM 1% 1/8W	28480 28480 28480 28480 28480 28480	0757-0200 0698-3155 0698-3154 0757-0438 0757-0401
A5R81 A5R82 A5R83 A5R84 A5R85	0757-0438 0698-3151 0698-3154 0757-0274 0698-3444		R:FXD MET FLM 5-11K OHM 1% 1/8W R:FXD MET FLM 2-87K DHM 1% 1/8W R:FXD MET FLM 4-22K DHM 1% 1/8W R:FXO MET FLM 1-21K DHM 1% 1/8W R:FXD MET FLM 316 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0438 0698-3151 0698-3154 0757-0274 0698-3444
A 5R 86 A 5R 87 A 5R 88 A 5R 89 A 5R 90	0698-3154 D757-D447 0698-3158 0698-3158 0698-3161		R:FXO MET FLM 4.22K DHM 1% 1/8W R:FXO MET FLM 16.2K DHM 1% 1/8W R:FXO MET FLM 23.7K OHM 1% 1/8W R:FXO MET FLM 23.7K OHM 1% 1/8W R:FXO MET FLM 38.3K OHM 1% 1/8W	28480 28480 28480 28480 28480	0698-3154 0757-0447 0698-3158 0698-3158
A 5U 1 A 5U 2 A 5U 3 A 5U 4	1826-0100 1826-0100 1826-0100 1820-0106	1	OPERATIONAL AMPLIFIER, DUAL OPERATIONAL AMPLIFIER, DUAL DPERATIONAL AMPLIFIER, DUAL	28480 28480 28480	1826-0100 1826-0100 1826-010D
			t i		

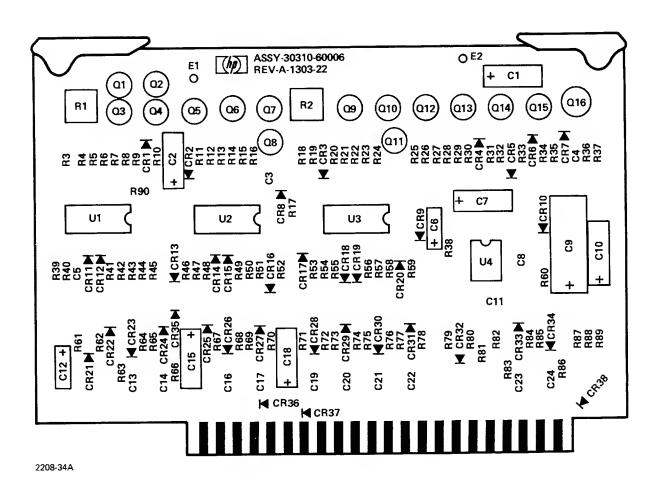


Figure 2-56. Voltage Protect PCA (A5), Parts Location Diagram

Table 2-58. Capacitor Board PCA (A8A1), Replaceable Parts

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
A8A1 A8A1C10 A6A1C13 AbA1C15 £641C16 #8A1CR1	30310-60008 0180-2415 0160-3626 0180-0141 0180-0141	1 1 1	CAPACITOR 80ARD, PCA C:FXO AL ELECT 200 UF +75-10% 40VUCH C:FXD CER 5000 PF 20% 2K VDCH C:FXD ELECT 50 UF +75-10% 50VOCH C:FXD FLECT 50 UF +75-10% 50VOCH DIDDE:SILICON D. 754 400PIV	28480 56289 56289 56289 56289 04713	30310-60008 39D207G040EL4 29C231A 30D506G05DD02-OSM 300506G050DD2-DSM SR1358-4
ARA1CR2 A8A1CR3 A8A1CR4 A8A1CR5 A8A1CR6	1901-0159 1901-0159 1901-0159 1901-0159 1901-0159		OIGDE:SILICON 0.75A 400PIV DIDDE:SILICON 0.75A 400PIV DIDDE:SILICON 0.75A 400PIV DIDDE:SILICON 0.75A 400PIV OIDDE:SILICON 0.75A 400PIV	04713 04713 04713 04713 04713	SR1358-4 SR1358-4 SR1358-4 SR1358-6 SR1358-4
#8#1CR7 #8#1CR6 #8#1CR9 #8#1CR10 #8#1CR11	1901-0159 1901-0159 1901-0159 1901-0159 1901-0159		OIODE:SILICON 0.75A 400PIV DIODE:SILICON 0.75A 400PIV DIODE:SILICON 0.75A 400PIV DIODE:SILICON 0.75A 400PIV DIODE:SILICON 0.75A 400PIV	04713 04713 04713 04713 04713	SR1359-4 SR1358-4 SR1358-4 SR1358-4 SR1358-4
### ##################################	1901-0159 1901-0159 1901-0164 1901-0164 1901-0159	2	DIODE:SILICON 0.75A 4DOPIV DIDDE:SILICON 0.75A 4DOPIV DIODE:SILICON 200PIV 3A OIODE:SILICON 200PIV 3A OIDDE:SILICON 0.75A 4COPIV	04713 04713 04713 04713 04713	SR1358-4 SR1358-4 1N4721 1N4721 SR1358-4
ARAILI ABAIL2 ABAIL3 ARAIL4	9100-2940 9140-0131 9100-2937 9100-2940 9100-2928	2 1 1	CHOKE:100 UH COJL:FXD RF 10 MH CHOKE:30 UH CHOKE:100 UH INOUCTOR:4 UH	28480 28480 28480 28480 28480	9100-2940 9140-0131 9100-2937 9100-2940 9100-2928
8841L5 8841L6 8841L7 8841R1 8641R2	9100-2928 9100-2928 9100-2941 0698-3609 0698-3605	1 2 2	INDUCTOR:4 UH INDUCTOR:4 UH CHOKE:200 UH R:FXO MET OX 22 UHM 5% 2W R:FXO MET OX 15 OHM 5% 2W	28480 28480 28480 28480 28480	9100-2928 9100-2928 9100-2941 6698-3609 0698-3605
#841R3 #841R4 #841R5 #841R6 #841R7	0698-3605 0698-3624 0696-3624 0757-0316 0757-0401	2	R:FXD MET OX 15 OHM 5% 2W R:FXD MET OX 150 OHM 5% 2W R:FXD MET OX 150 OHM 5% 2W R:FXD MET FLM 42.2 OHM 1% 1/8W R:FXD MET FLM 100 OHM 1% 1/EW	28480 28480 28480 28480 28480 28480	0698-3605 0698-3624 0698-3624 0757-0316 0757-0401
#841R8 #841R9 #841R10 #841R11 #841R12	0811-1885 0757-0316 0757-0401 0811-0040 0698-3623	1 1 2	R:FXD WW 0.025 OHM 5% 10W R:FXD MET FLM 42.2 OHM 1% 1/8W R:FXO MET FLM 100 OHM 1% 1/8W R:FXD WW 1 OHM 1% 5W R:FXD MET 0X 390 OHM 5% 2W	284 80 284 80 284 80 284 80 284 80	0811-1885 0757-0316 0757-0401 0811-0040 0698-3633
ABAIR13 ABAIR14 ABAIT1	0698-3633 0698-3609 9100-2942	1	R:FXO MET OX 390 OHM 5% 2W R:FXD MET OX 22 OHM 5% 2W TRANSFORMER	28480 28480 28480	0698-3633 0698-3609 9100-2942
		rices).			
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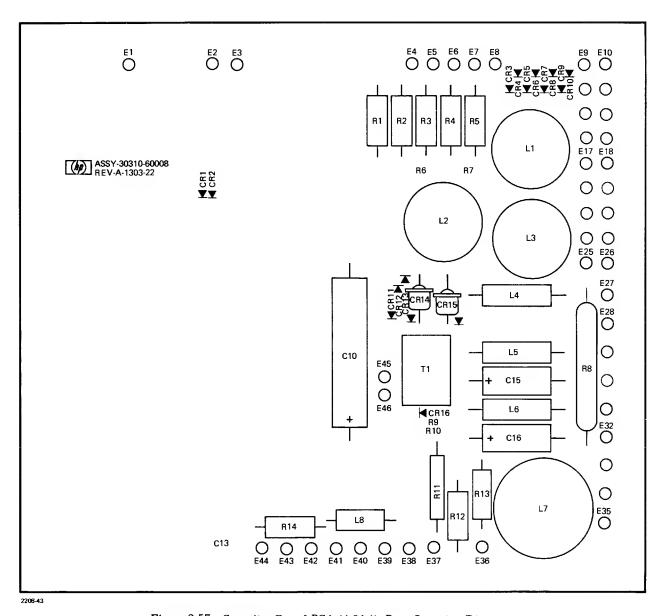


Figure 2-57. Capacitor Board PCA (A8A1), Parts Location Diagram

Table 2-59. Auxiliary Control Panel, Replaceable Parts

To Be Supplied

To Be Supplied

Table 2-60. Input PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
. G1 G2 G3 G4	30350-60001 0180-0229 0160-2055 0160-2055 0160-2055	1 T 35	INPUT PCA C:FXO ELECT 33 UF 10% 10VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	28480 28480 56289 56289 56289	30350-60001 0180-0229 C023F101F103ZS22-C0H CC23F101F103ZS22-C0H C023F101F103ZS22-C0H
C5 C6 C7 C8 C10	0160-2055 0160-2055 0160-2055 0160-2055 C160-2055		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F1C1F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-C0H C023F101F1C3ZS22-COH
C11 C12 C13 C14 C15	0160-2055 0160-2055 0160-2055 0160-2055 0180-0229		C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO ELEC7 33 UF 10% 10VDCW	56289 56289 56289 56289 2848C	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 0180-0229
C16 C17 C18 C19 C20	0180-0229 0160-2055 0160-2055 0160-2055 0160-2055		C:FXD ELECT 33 UF 10% 10VDCW C:FXO CER 0.01 UF +80-20% 100VDCW	28480 56285 56289 56289 56289	0180-C229 CC23F101F1C3ZS22-CDH C023F101F103ZS22-COH C023F1C1F103ZS22-COH C023F101F103ZS22-COH
C21 C22 C23 C24 C25	0160-2055 0160-2055 0160-2055 0160-2055 0180-0229		C:FXD CER 0.01 UF +80-20% 100VOCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 33 UF 10% 10VDCW	56289 56289 56289 56289 28480	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 0180-0229
C26 C2T C28 C29 C30	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS22=C0H C023F101F103ZS2=C0H
C 31 C 32 C 33 C 34 C 35	0180-0229 0160-2055 0160-2055 0160-2055 0180-0229		C:FXO ELECT 33 UF 10% 10VOCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO ELECT 33 UF 10% 10VDCW	28480 56289 56289 56289 28480	0180-0229 C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 0180-0229
C36 C37 C38 C39 C40	0180-0229 0160-2055 0160-2055 0160-2055 0160-0127	6	C:FXO ELECT 33 UF 10% 10VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 1.0 UF 20% 25VDCW	28480 56289 56289 56289 56289	0180-0229 C023F101F103ZS22-COH C023F101F103ZS22-COH C023F101F103ZS22-COH 5C13CS-CML
C41 C42 C43 C44 C45	0160-0127 0160-0127 0160-012T 0160-2055 0160-0127		C:FXO CER 1.0 UF 20% 25VDCW C:FXO CER 1.0 UF 20% 25VDCW C:FXO CER 1.0 UF 20% 25VDCW C:FXO CER 0.01 UF +80-20% 100VOCW C:FXO CER 1.0 UF 20% 25VOCW	56289 56289 56289 56289 56289	5C13CS-CML 5C13CS-CML 5C13CS-CML C023F101F103ZS22-COH 5C13CS-CML
C46 C47 C48 C49 C50	0160-0127 0160-2055 0160-2055 0160-0153 0160-0153	2	C:FX0 CER 1.0 UF 20% 25YOCW C:FX0 CER 0.01 UF +80-20% 100YOCW C:FX0 CER 0.01 UF +80-20% 100YOCW C:FX0 MY 0.001 UF 10% 200YOCW C:FX0 MY 0.001 UF 10% 200YOCW	56289 56289 56289 56289 56289	5C13CS-CML C023F101F103ZS22-COH C023F101F103ZS22-COH 192P10292-PTS 192P10292-PTS
C9 CR1 CR2 CR3 CR4	0160-2055 1990-0325 1990-0325 1990-0325 1990-0325	4	C:FXO CER 0.01 UF +80-20% 100VOCH 0100E:VISIBLE LIGHT EMITTER 010DE:VISIBLE LIGHT EMITTER 0100E:VISIBLE LIGHT EMITTER 0100E:VISIBLE LIGHT EMITTER	56289 28480 28480 28480 28480	C023F101F103ZS22-C0H 1990-0325 1990-0325 1990-0325 1990-0325
P1 P2 R1 R2 R3	1251-3090 1251-3090 1810-0030 1810-0045 0T5T-0407	2 4 4 4	CONNECTOR:R & P 50 MALE CONTACT CONNECTOR:R & P 50 MALE CONTACT NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA RESISTOR PACK:T RES. 200 OHM 5% 0.15W R:FXO MET FLM 200 OHM 1% 1/8W	66346 66346 28480 28480 28480	3433-2002 3433-2002 1810-0030 1810-0045 0T57-0407
R4 R5 R6 R7 R8	0757-040T 075T-0407 1810-0030 1810-0045 0T57-040T		R:FXO MET FLM 200 OMM 1% 1/8W R:FXO MET FLM 200 OMM 1% 1/8W NETWORK:7 RESISTORS 1K OHM 5% 0.15W EA RESISTOR PACK:7 RES. 200 OHM 5% 0.15W R:FXO MET FLM 200 OHM 1% 1/8W	28480 28480 28480 28480 28480	0757-0407 0757-0407 1810-0030 1810-0045 0757-0407
R9 R10 R11 R12 R13	1810-0045 0757-0198 0757-0198 0757-0198 0757-0198	13	RESISTOR PACK:7 RES. 200 OHM 5% 0.15W R:FX0 ME7 FLM 100 OHM 1% 1/2W R:FX0 ME7 FLM 100 OHM 1% 1/2W R:FX0 ME7 FLM 100 OHM 1% 1/2W R:FX0 ME7 FLM 100 OHM 1% 1/2W	28480 28480 28480 28480 28480	1810-0045 075T-0198 075T-0198 0757-0198 0757-0198
R14 R15 R16 R17 R18	0757-0198 0757-0198 0757-0198 0757-0198 0757-0198		R:FXO MET FLM 100 OHM 1% 1/2W R:FXO MET FLM 100 OMM 1% 1/2W R:FXO MET FLM 100 OHM 1% 1/2W R:FXO MET FLM 100 OMM 1% 1/2W R:FXO MET FLM 100 OMM 1% 1/2W	28480 28480 28480 28480 28480	0757-C198 0757-0198 0757-C198 0757-C198 0757-0198

Table 2-60. Input PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Oty	Description	Mfr Code	Mfr Part Number
R19 R20 R21 R22 R23	0757-0198 0757-0198 0757-0198 0757-0198 1810-003D		R:FXO MET FLM 10G DHM 1% 1/2W R:FXO MET FLM 100 DHM 1% 1/2W R:FXO MET FLM 100 DHM 1% 1/2W R:FXO MET FLM 100 OHM 1% 1/2W NETWORK:7 RESISTDRS 1K OHM 5% 0.15W EA	28480 28480 28480 28480 28480	0757-0198 0757-0198 0757-0198 0757-0198 1810-0030
R24 R25 R26 R27 S1	0698-3159 0698-3159 1810-0045 1810-D030 3101-1670	2	R:FXO MET FLM 26-1K DHM 1% 1/8W R:FXO MET FLM 26-1K OHM 1% 1/8W RESISTOR PACK:7 RES- 200 OHM 5% 0-15W NETWORK:7 RESISTORS 1K GHM 5% 0-15W EA SWITCH:TOGGLE SPOT SUB-MINIAT JAGE GRAY	28480 28480 28480 28480 09353	C69B-3159 0698-3159 1810-0045 1810-0030 7108CB2-J4X
\$2 \$3 \$4 \$5 \$6	3101-1670 3101-1670 3101-1670 3101-1670 3101-1670		SWITCH:TOGGLE SPOT SU8-MINIAT JACE GRAY SWITCH:TDGGLE SPDT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JACE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7108CB2-J4X 7108CB2-J4X 7108C82-J4X 7108C82-J4X 7108CB2-J4X
\$7 \$8 \$9 \$10 \$11	31D1-1670 3101-1670 31D1-1669 3101-1669 31D1-1669	21	SMITCH:TOGGLE SPOT SU8-MINIAT JADE GRAY SMITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7108C82-J4X 7108CB2-J4X 7101CB2-J4X 7101C82-J4X 71G1CB2-J4X
\$12 \$13 \$14 \$15 \$16	3101-1668 3101-1668 3101-1668 3101-1669 3101-1669	18	SMITCH:TOGGLE SPOT SUB-MINIATURE SMITCH:TOGGLE SPOT SUB-MINIATURE SMITCH:TOGGLE SPOT SUB-MINIATURE SMITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7101 CBE-J4 7101 CBE-J4 7101 CBE-J4 7101CB2-J4X 7101CB2-J4X
\$17 \$18 \$19 \$20 \$21	31D1-1669 3101-1668 3101-1668 31D1-1668 3101-1669		SWITCH:TOGGLE SPOT SUB-MINIAT JAGE GRAY SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY	09353 09353 D9353 09353 D9353	7101CB2-J4X 7101 C8E-J4 7101 C8E-J4 7101 C8E-J4 7101CB2-J4X
\$22 \$23 \$24 \$25 \$26	31D1-1669 31D1-1669 31D1-1668 31D1-1668 31D1-1668		SWITCH:TDGGLE SPDT SUB-MINIAT JADE GRAY SWITCH:TDGGLE SPDT SUB-MINIAT JADE GRAY SWITCH:TDGGLE SPDT SUB-MINIATURE SWITCH:TOGGLE SPDT SUB-MINIATURE SWITCH:TDGGLE SPOT SUB-MINIATURE	D9353 09353 09353 D9353 D9353	71D1CB2-J4X 71D1CB2-J4X 71O1 CBE-J4 71O1 CBE-J4 71O1 CBE-J4
S27 S28 S29 S3D S31	3101-1669 3101-1668 3101-1668 3101-1668 3101-1669		SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIAT JAOE GRAY	D9353 09353 09353 D9353 D9353	7101CB2-J4X 7101 CBE-J4 7101 CBE-J4 7101 CBE-J4 7101CB2-J4X
\$32 \$33 \$34 \$35 \$36	3101-1669 3101-1669 3101-1668 3101-1668 3101-1668		SWITCH:TDGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TDGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIATURE	09353 D9353 D9353 09353 D9353	7101CB2-J4X 7101C82-J4X 71D1 C8E-J4 71D1 C8E-J4 7101 C8E-J4
\$37 \$38 \$39 \$40 \$41	3101-1669 3101-1669 3101-1669 3101-1668 3101-1668		SWITCH:TDGGLE SPDT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPDT SUB-MINIATURE	D9353 D9353 09353 09353 D9353	7101CB2-J4X 71D1CB2-J4X 7101CB2-J4X 7101 CBE-J4 7101 CBE-J4
S42 S43 S44 S45 S46	3101-1668 3101-1669 3101-1669 3101-1669 3101-1670		SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY	D9353 09353 09353 09353 09353	71D1 CBE-J4 71D1CB2-J4X 71D1CB2-J4X 71D1CB2-J4X 71DBCB2-J4X
S47 S48 S49 S50 S51	3101-1669 3101-1669 3101-1670 3101-1670 3101-1670		SWITCH:TDGGLE SPOT SU8-MINIAT JADE GRAY SWITCH:TDGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TDGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TDGGLE SPDT SUB-MINIAT JADE GRAY SWITCH:TDGGLE SPDT SUB-MINIAT JADE GRAY	D9353 09353 09353 09353 D9353	7101CB2-J4X 7101CB2-J4X 7108CB2-J4X 7108CB2-J4X 7108CB2-J4X 7108CB2-J4X
\$52 \$53 \$54 \$55 \$55 \$56	3101-1670 3101-1670 3101-1670 3101-1670 3101-0973	1	SWITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SWITCH:TDGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TDGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TDGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:SLIGE DPOT 0.5A 125V AC/DC	09353 09353 09353 09353 09353 79727	7108692-J4X 7108682-J4X 7108682-J4X 7108682-J4X G126-0018
TB1 U2 U3 U4 U5	0360-1735 1820-0262 1820-0370 1820-0615 1820-0141	1 5 2 21 2	8ARRIER BLDCK:4 TERMINALS 6-32 SCREW IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL 8-INPT MULTIPLEXER W/COM.ENABLE IC:TTL QUAD 2-INPT AND GATE	98410 12040 01295 04713 04713	45D04-3515 S09936 SN74HCON FAIR 9312 MC3CD1P
U6 U7 U8 U8 U9	1820-0621 1820-0621 1820-0615 1820-0424 1820-0615	15 2	IC:TTL QUAD 2-INPT NANO BUFFER W/OPEN C IC:TTL QUAO 2-INPT NAND BUFFER W/OPEN C IC:TTL B-INPT MULTIPLEXER W/COM.ENABLE IC:TTL HS HEX INVERTER IC:TTL 8-INPT MULTIPLEXER W/COM.ENABLE	D1295 01295 D4713 D4713 D4713	SN7438N SN7438N FAIR 9312 SN74HC4N FAIR 9312

Table 2-60. Input PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
UIO U11 U12 U13 U14	1820-0535 1820-0535 1820-0615 1820-0615 1820-0615	6	IC:TTL DUAL PERI.2-INPT AND DRIVER IC:TTL DUAL PERI.2-INPT AND DRIVER IC:TTL 8-INPT HULTIPLEXER W/CDH.ENABLE IC:TTL 8-INPT HULTIPLEXER W/CDM.ENABLE IC:TTL 8-INPT MULTIPLEXER W/CDM.ENABLE	01295 01295 04713 04713	SN75451P SN75451P FAIR 9312 FAIR 9312 FAIR 9312
U15 U16 U17 U18 U19	1820-0615 1820-0615 1820-0615 1820-0615 1820-0621		IC:TTL 8-INPT HULTIPLEXER W/COH.ENABLE IC:TTL 8-INPT MULTIPLEXER W/CDH.ENABLE IC:TTL 8-INPT MULTIPLEXER W/COM.ENABLE IC:TTL 8-INPT MULTIPLEXER W/CDM.ENABLE IC:TTL QUAD 2-INPT NAND BUFFER W/OPEN C	04713 04713 04713 04713 04713 01295	FAIR 9312 FAIR 9312 FAIR 9312 FAIR 9312 SN7438N
U20 U2I U22 U23 U24	1820-0621 1820-0621 1820-0621 1820-0621 1820-0621		IC:TTL QUAD 2-INPT NAND BUFFER W/OPEN C IC:TTL QUAD 2-INPT NANO BUFFER W/OPEN C IC:TTL QUAD 2-INPT NAND BUFFER W/OPEN C IC:TTL QUAD 2-INPT NAND BUFFER W/OPEN C IC:TTL QUAD 2-INPT NAND BUFFER W/OPEN C	01295 01295 01295 01295 01295	SN 7438N SN 7438N SN 7438N SN 7438N SN 7438N
U25 U26 U27 U28 U29	1820-0621 1820-0621 1820-0262 1820-0262 1820-0615		IC:TTL QUAD 2-INPT NANO BUFFER W/OPEN C IC:TTL QUAD 2-INPT NAND BUFFER W/OPEN C IC:TTL 8-8IT PAR-IN SER-DUT SHIFT REG. IC:TTL 8-BIT PAR-IN SER-DUT SHIFT REG. IC:TTL 8-INPT HULTIPLEXER W/CDH.ENABLE	01295 01295 12040 12040 04713	SN743EN SN7438N SD9936 SD9936 FAIR 9312
U30 U31 U32 U33 U34	1820-0615 1820-0615 1820-0615 1820-0615 1820-0262		IC:TTL 8-INPT HULTIPLEXER M/CDH.ENABLE IC:TTL 8-INPT MULTIPLEXER M/COH.ENABLE IC:TTL 8-INPT HULTIPLEXER M/COM.ENABLE IC:TTL 8-INPT MULTIPLEXER M/COM.ENABLE IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG.	04713 04713 04713 04713 12040	FAIR 9312 FAIR 9312 FAIR 9312 FAIR 9312 SD9936
U35 U36 U37 U38 U39	1820-0615 1820-0615 1820-0615 1820-0615 1820-0615		IC:TTL 8-INPT HULTIPLEXER W/COH.ENABLE IC:TTL 8-INPT HULTIPLEXER W/COH.ENABLE IC:TTL 8-INPT HULTIPLEXER W/COH.ENABLE IC:TTL 8-INPT HULTIPLEXER W/COH.ENABLE IC:TTL 8-INPT HULTIPLEXER W/COH.ENABLE	04713 04713 04713 04713 04713	FAIR 9312 FAIR 9312 FAIR 9312 FAIR 9312 FAIR 9312
U40 U41 U42 U43 U44	1820-0621 1820-0374 1820-0512 1820-0695 1820-0621	1 2 1	IC:TTL QUAD 2-INPT NAND BUFFER W/DPEN C IC:TTL HS OUAL 4-INPT ANO GATE IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL SHS DUAL J-K F/F W/PRESET IC:TTL QUAD 2-INPT NAND BUFFER W/OPEN C	01295 01295 01295 01295 01295	SN7438N SN74H21N SN74H74N SN745113N SN7438N
U45 U46 U47 U48 U49	1820-0262 1820-0621 1820-0621 1820-0233 1820-0233	2	IC:TTL 8-8IT PAR-IN SER-OUT SHIFT REG. IC:TTL QUAD 2-INPT NAND BUFFER W/DPEN C IC:TTL QUAD 2-INPT NAND BUFFER W/DPEN C IC:TTL SYNUP-DN 4-8IT BINARY COUNTER IC:TTL SYNUP-DN 4-8IT BINARY COUNTER	12040 01295 01295 01295 01295	SD9936 SN7438N SN7438N SN74193N SN74193N
U50 U51 U52 U53 U54	1820-0512 1820-0424 1820-0207 1820-0535 1820-0535	2	IC:TTL HS DUAL D F/F(35 MHZ MIN.) IC:TTL HS HEX INVERTER IC:TTL HDNDSTABLE HULTIVIBRATDR IC:TTL DUAL PERI.2-INPT AND DRIVER IC:TTL DUAL PERI.2-INPT AND ORIVER	01295 04713 28480 01295 01295	SN74H74N SN74HC4N 1820—0207 SN75451P SN75451P
U55 U56 U57 U58 U59	1820-0535 1820-0535 1820-0370 1820-0141 1820-0207		IC:TTL DUAL PERI.2-INPT AND DRIVER IC:TTL DUAL PERI.2-INPT AND DRIVER IC:TTL HS QUAD 2-INPT NAND GATE IC:TTL QUAD 2-INPT ANO GATE IC:TTL HDNDSTABLE HULTIVIBRATDR	01295 01295 01295 04713 28480	SN75451P SN75451P SN74HOGN MC3001P 1820—C207
U60 U61 W2	1820-0615 1820-0621 8159-0005		IC:TTL 8-INPT HULTIPLEXER W/CDH.ENABLE IC:TTL QUAD 2-INPT NAND BUFFER W/DPEN C JUMPER WIRE	04713 01295 28480	FAIR 9312 SN7438N 8159—0005
		i			

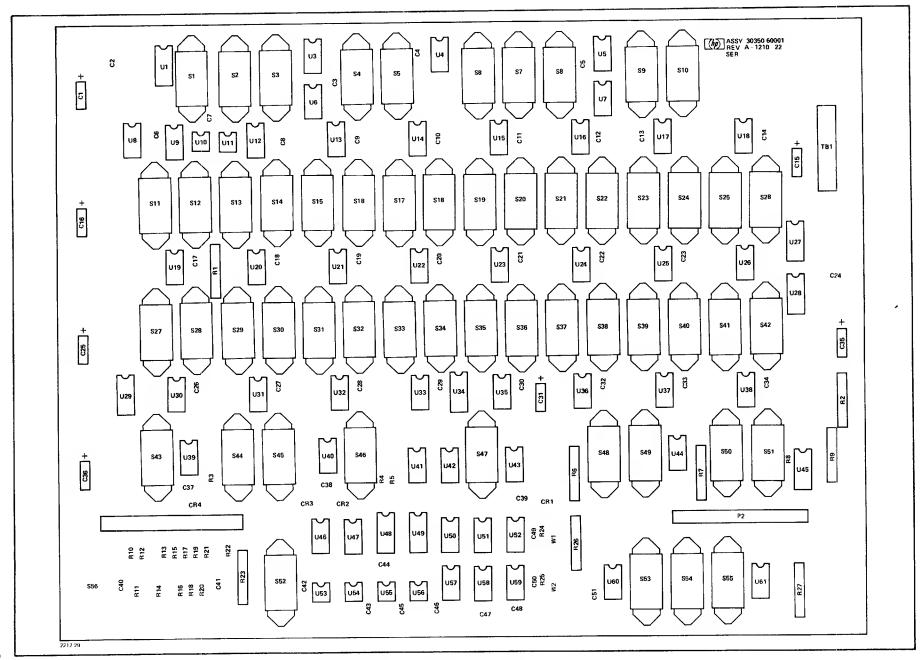


Figure 2-59. Input PCA, Parts Location Diagram

Table 2-61. Display PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4 C5	30350-60002 0180-0229 0180-0229 0180-0229 0180-0229 0160-0255	9	DISPLAY PCA C:FXO ELECT 33 UF 10% 10V0CW C:FXO ELECT 33 UF 10% 10V0CW C:FXO ELECT 33 UF 10% 10V0CW C:FXO ELECT 33 UF 10% 10V0CW C:FXO ELECT 33 UF 10% 10V0CW	28480 28480 28480 28480 28480 56289	30350-60002 0180-0229 0180-0229 0180-0229 0180-0229 C023F101F103ZS22-C0H
C6 C7 C8 C9 C10	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER D.D1 UF +80-2D% 100VDCW C:FXD CER 0.01 UF +80-2D% 100VDCW C:FXD CER 3.01 UF +80-2D% 100VDCW C:FXD CER 0.01 UF +80-2D% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289 56289 56289 56289	CD23F101F103ZS22-CDH CO23F101F103ZS22-CDH CO23F101F103ZS22-CDH CD23F101F103ZS22-CDH CD23F101F103ZS22-CDH
C11 C12 C13 C14 C15	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FXO CER 0.01 UF +80-20% 1DDVOCW C:FXD CER 0.01 UF +80-20% 1DDVOCW C:FXD CER 0.01 UF +80-20% 1DDVOCW C:FXD CER 0.01 UF +80-20% 1DOVOCW C:FXD CER 0.01 UF +80-20% 1DOVOCW	562 89 562 89 562 89 562 89 562 89	CD23F101F103ZS22-CDH C023F101F1D3ZS22-CDH CD23F101F1D3ZS22-CDH CD23F101F103ZS22-CDH CD23F101F103ZS22-CDH
C16 C17 C18 C19 C2D	0160-2055 0160-2055 0163-2055 0160-2055 0160-2055		C:FXO CER D.D1 UF +80-2D\$ 100VDCW C:FXD CER D.O1 UF +80-2O\$ 100VOCW C:FXD CER O.O1 UF +8D-2O\$ 100VOCW C:FXO CER D.D1 UF +8D-2D\$ 100VOCW C:FXO CER D.O1 UF +80-2D\$ 100VOCW	56 289 56 289 56 289 56 289 56 289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-CDH C023F101F103ZS22-CDH C023F101F103ZS22-C0H
C21 C22 C23 C24 C25	0160-2055 0160-2055 0180-0229 0180-0229 0180-0229		C:FXD CER 0.01 UF +8D-2D\$ 1DDVDCW C:FXD CER 0.01 UF +80-20\$ 100VDCW C:FXD ELECT 33 UF 10\$ 1DVDCW C:FXD ELECT 33 UF 10\$ 1DVDCW C:FXD ELECT 33 UF 10\$ 10VDCW	56289 56289 28480 28460 28460	CD23F101F103ZS22-COH C023F101F103ZS22-CDH D160-D229 D180-D229 D180-D229
C 26 C 27 C 28 C R 1 C R 64	0180-0229 0180-0229 0160-2055	64	C:FXO ELECT 33 UF 10% 1DVOCW C:FXO ELECT 33 UF 10% 1DVOCW C:FXO CER D.D1 UF +8D-2D% 1DOVOCW THRU D1DDE:VISIBLE LIGHT EMITTER	28480 2848D 56289	0180-0229 0180-0229 C023F101F103ZS22-CDH
P1 T81 U1 U2 U3	1251-3090 0360-1735 1810-0037 1810-0124 1820-0742	1 1 2 8 8	CONNECTOR:R & P 5D MALE CCNTACT BARRIER BLOCK:4 TERMINALS 6-32 SCREW RESISTOR ARRAY:1K OHM 2% 1W EACH RESISTOR ARRAY:8 X 20D OHM 2% 1-3/4W IC:TTL DUAL 4-8IT LATCH	66346 98410 28480 28480 07263	3433-2002 45004-3515 1810-0037 1810-0124 U6N930859X
U4 U5 U6 U7 U8	1810-0124 1823-0742 1810-0124 1820-0742 1810-0124		RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W 1C:TTL OUAL 4-8IT LATCH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W 1C:TTL OUAL 4-8IT LATCH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W	28480 07263 28480 07263 28480	1810-0124 U6N930859X 1810-0124 U6N930859X 1810-0124
U9 U10 U11 U12 U13	1820-0742 1820-0424 1820-0373 1820-0141 1820-0294	1 2 4 2	IC:TTL DUAL 4-8IT LATCH IC:TTL HS HEX INVERTER IC:TTL HS OUAL 4-INPT NAND GATE IC:TTL GUAD 2-INPT AND GATE IC:TTL 8-8IT SER-IN PAR OUT SHIFT REG	07263 04713 01295 04713 12040	U6N93D859X SN74HD4N SN74H20N MC3DD1P SD9935
U14 U15 U16 U17 U18	1820-0141 1820-0141 1820-0294 1820-0141 1820-0373		IC:TTL QUAD 2-INPT ANO GATE IC:TTL QUAD 2-INPT ANO GATE IC:TTL 8-81T SER-IN PAR QUT SHIFT REG IC:TTL DUAD 2-INPT ANO GATE IC:TTL HS DUAL 4-INPT NAND GATE	04713 04713 12040 04713 01295	MC 30 01 P MC 30 01 P SD 99 35 MC 30 01 P SN 74 H2 0 N
U19 U20 U21 U22 U23	1820-0535 1810-0124 1820-0742 1810-0124 1820-0742	1	IC:TTL OUAL PERI.2-INPT AND DRIVER RESISTOR ARRAY:8 X 20D 0HM 2% 1-3/4W IC:TTL OUAL 4-8IT LATCH RESISTOR ARRAY:8 X 200 0HM 2% 1-3/4W IC:TTL OUAL 4-8IT LATCH	01295 28480 07263 28480 07263	SN75451P 1810-0124 U6N930859X 1810-0124 U6N930859X
U24 U25 U26 U27 U28	1810-0124 1820-0742 1813-0124 1820-0742 1810-0037		RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL DUAL 4-8IT LATCH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL OUAL 4-8IT LATCH RESISTOR ARRAY:1K OHM 2% 1W EACH	2848D 07263 2848D 07263 28480	1810-0124 U6N930859X 1810-0124 U6N930859X 1810-0037

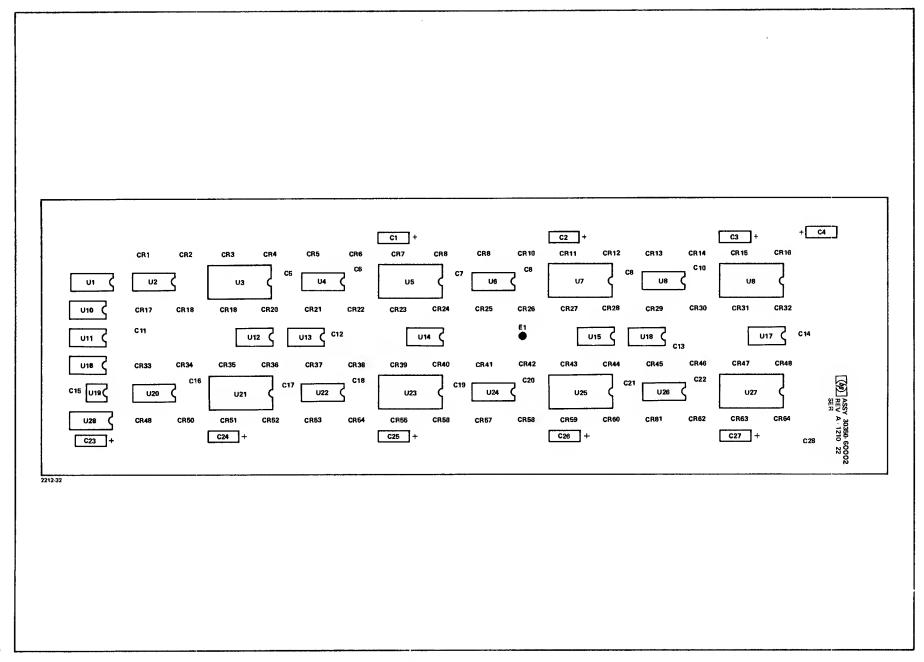


Figure 2-60. Display PCA, Parts Location Diagram

Replaceable Parts 3000

Table 2-62. Hardware Maintenance Panel, Replaceable Parts

To Be Supplied

Replaceable Parts

3000

To Be Supplied

Figure 2-61. Hardware Maintenance Panel, Exploded View

Table 2-63. Input PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
C1 C2 C3 C4	30352-60001 0160-2055 0160-2055 0180-0229 0160-2055	1 16 5	INPUT PCA C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 1D0VOCW C:FXD ELECT 33 UF 1D% IOVDCW C:FXD CER 0.01 UF +80-20% 10DVOCW	28480 56289 56289 28480 56289	30352-60001 C023F1D1F103ZS22-C0H C023F101F103ZS22-C0H 0180-0229 C023F101F103ZS22-C0H
C5 C6 C7 C8 C9	0160-2055 0160-2055 0160-2055 0160-2055 0180-0229		C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10VDCW	56 2 8 9 56 2 8 9 56 2 8 9 56 2 8 9 28 4 8 0	C023F101F103ZS22-CDH C023F1D1F103ZS22-CDH C023F101F103ZS22-COH C023F101F103ZS22-CDH 018D-0229
C10 C11 C12 C13 C14	0180-0229 0160-2055 0180-0229 0160-2055 0160-2055		C:FXD ELECT 33 UF 10% 10VDCM C:FXO CER 0.01 UF +80-20% 100VDCM C:FXD ELECT 33 UF 10% 10VDCM C:FXD CER 0.01 UF +80-20% 100VDCM C:FXO CER 0.01 UF +80-20% 100VDCM	28480 56249 28480 56289 56289	0180-0229 C023F101F103ZS22-CDH D180-0229 C023F101F103ZS22-CDH C023F101F103ZS22-CDH
C15 C16 C17 C18 C19	0160-2055 0160-2055 0160-2055 0160-2055 0180-0229		C:FXD CER 0.01 UF +80-20% 100V0CW C:FXD CER 0.01 UF +80-20% 1D0VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10VDCW	56289 56289 56289 56289 28480	C023F101F103ZS22-CDH C023F1D1F103ZS22-CDH C023F101F103ZS22-CDH CD23F1D1F103ZS22-CDH 0180-D229
C20 C21 P1	0160-2055 0160-2055 125103090	1	C:FXO CER 0.01 UF +80-20% 100VOCW C:FXD CER 0.01 UF +80-20% 100VDCW	56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-CDH
R1 R2	0757-1000 1810-0030	1 2	R:FXO MET FLM 51.1 OHM 1% 1/2H NETWORK:7 RESISTORS 1K DHM 5% 0.15W EA	28480 28480	0757-1000 1810-0030
R3 S1 S2 S3 S4	1810-0030 3101-1669 3101-1669 3101-1669 3101-1668	18 12	NETWORK: 7 RESISTORS 1K OHM 52 0.15W EA SWITCH: TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH: TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH: TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH: TOGGLE SPOT SUB-MINIATURE	28480 09353 09353 09353 09353	1810-D030 7101C82-J4X 7101C82-J4X 7101C82-J4X 7101 C8E-J4
S5 S6 S7 S8 S9	3101-1668 3101-1668 3101-1669 3101-1669 3101-1669		SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-HINIATURE SWITCH:TOGGLE SPOT SUB-HINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-HINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7101 C8E-J4 7101 C8E-J4 7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X
\$10 \$11 \$12 \$13 \$14	3101-1666 3101-1668 3101-1668 3101-1669 3101-1669		SWITCH:TOGGLE SPDT SUB-MINIATURE SWITCH:TOGGLE SPDT SUB-MINIATURE SWITCH:TOGGLE SPDT SUB-MINIATURE SWITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPDT SUB-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7101 C8E-J4 7101 C8E-J4 7101 C8E-J4 7101 C8E-J4 7101C82-J4X 7101C82-J4X
\$16 \$17 \$18 \$19 \$20	3101-1669 3101-1669 3101-1669 3101-1668 3101-1668		SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIATURE	09353 09353 09353 09353 09353	7101C82~J4X 7101C82~J4X 7101C82~J4X 7101C 88~J4 7101 C8E~J4
S 21 S 22 S 23 S 24 S 25	3101-1668 3101-1669 3101-1669 3101-1669 3101-1668		SWITCH:TOGGLE SPOT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIATURE	09353 09353 09353 09353 09353	7101 C8E-J4 7101C82-J4X 7101C82-J4X 7101C82-J4X 7101C82-J4X
\$26 \$27 \$28 \$29 \$30	3101-1668 3101-1668 3101-1670 3101-1669 3101-1669		SWITCH:TOGGLE SPDT SUB-MINIATURE SWITCH:TOGGLE SPDT SUB-MINIATURE SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH:TOGGLE SPOT SUB-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7101 C8E-J4 7101 C8E-J4 7108C82-J4X 7101C82-J4X 7101C82-J4X
\$31 \$32 \$33 \$34 \$35	3101-1670 3101-1669 3101-1670 3101-1669 3101-1670		SWITCH: TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH: TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH: TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH: TOGGLE SPOT SUB-MINIAT JADE GRAY SWITCH: TOGGLE SPOT SUB-MINIAT JADE GRAY	09353 09353 09353 09353 09353	7108C82-J4X 7101C82-J4X 7108C82-J4X 7101C82-J4X 7108C82-J4X
\$36 U1 U2 U3 U4	3101-1670 1820-0307 1820-0307 1820-0307 1820-0262	12	SWITCH:TOGGLE SPOT SUB-HINIAT JACE GRAY IC:DTL HEX INVERTER IC:DTL HEX INVERTER IC:DTL HEX INVERTER IC:TTL 8-8IT PAR-IN SER-DUT SHIFT REG.	09353 04713 04713 04713 12040	7108C82-J4X HC836P HC836P HC836P S09936
U5 U6 U7 UB U9	1820-0307 1820-0307 1820-0307 1820-0307 1820-0262		IC:DTL HEX INVERTER 1C:DTL HEX INVERTER 1C:DTL HEX INVERTER 1C:OTL HEX INVERTER 1C:OTL HEX INVERTER 1C:TTL 8-81T PAR-IN SER-OUT SHIFT REG.	04713 04713 04713 04713 12040	MC 836P MC 836P MC 836P MC 836P S09936
U10 U11 U12 U13 U14	1820-0307 1820-0307 1820-0262 1820-0262 1820-0307		IC:OTL HEX INVERTER IC:OTL HEX INVERTER IC:TIL 8-01T PAR-IN SER-OUT SHIFT REG. IC:TIL 8-01T PAR-IN SER-OUT SHIFT REG. IC:OTL HEX INVERTER	04713 04713 12040 12040 04713	MC 836P MC 836P S0 9936 NC 836P

Table 2-63. Input PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U15 U16 U17 U18 U19 U20 U21 U22 U22	1820-0262 1820-0307 1820-0535 1820-0307 1820-0621 1820-0373 1820-0535 1820-0424 1820-0373	2 1 2 1	IC:TTL 8-BIT PAR-IN SER-OUT SHIFT REG. IC:OTL HEX INVERTER IC:TTL OUAL PERI.2-INPT AND DRIVER IC:OTL HEX INVERTER IC:TTL OUAD 2-INPT NAND BUFFER W/OPEN C IC:TTL HS DUAL 4-INPT NAND GATE IC:TTL OUAL PERI.2-INPT AND DRIVER IC:TTL HS HEX INVERTER IC:TTL HS DUAL 4-INPT NANO GATE	12040 04713 01295 04713 01295 01295 01295 01295 04713 01295	SD9936 MC836P SN75451 P MC836P SN7438N SN74420N SN75451 P SN74H04N SN74H04N

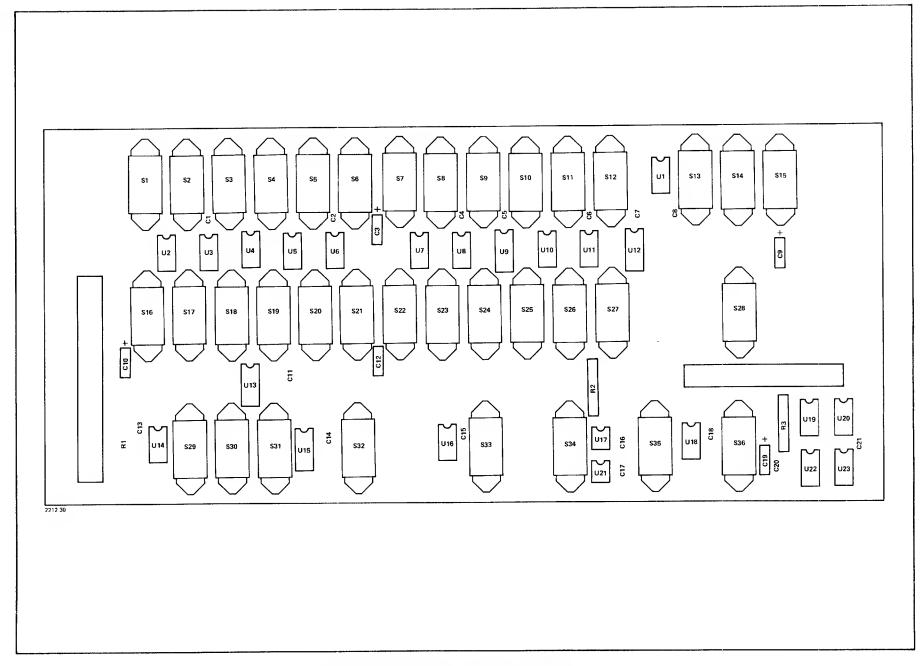


Figure 2-62. Input PCA, Parts Location Diagram

Table 2-64. Display PCA, Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number	
C1 C2 C3 C4 C5	30352-60002 0180-0229 0160-2055 0160-2055 0160-2055 0160-2055	9 31	01SPLAY PCA C:FX0 ELECT 33 UF 10% 10V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW	28480 28480 56289 56289 56289 56289	30352-60002 0180-0229 C023F101F103Z522-C0H C023F101F103Z522-C0H C023F101F103Z522-C0H C023F101F103Z522-C0H	
C6 C7 C8 C9 C10	0160-2055 0180-0229 0160-2055 0180-0229 0180-0229		C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 ELECT 33 UF 10% 10V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 ELECT 33 UF 10% 10V0CW C:FX0 ELECT 33 UF 10% 10V0CW	56289 28480 56289 28480 28480	C023F10IF103ZS22-C0H 0180-0229 C023F10IF103ZS22-C0H 0180-0229 0180-0229	
C11 C12 C13 C14 C15	0160-2055 0183-0229 0180-0229 0160-2055 0160-2055		C:FX0 CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10VDCW C:FX0 ELECT 33 UF 10% 10VOCW C:FX0 CER 0.01 UF +80-20% 100VOCW C:FX0 CER 0.01 UF +80-20% 100VOCW	56289 28480 28480 56289 56289	C023F101F103ZS22-CDH 0180-0229 0180-0229 C023F101F103ZS22-COH C023F101F103ZS22-COH	
C16 C17 C18 C19 C20	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FX0 CER 0.01 UF +80-20% 100VOCW C:FX0 CER 0.01 UF +80-20% 100VOCW	56289 56289 56289 56289 56289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H	
C21 C22 C23 C24 C25	0160-2055 0160-2055 0160-2055 0160-2055 0180-0229	4	C:FXO CER 0.01 UF +80-20% 100V0CM C:FXO CER 0.01 UF +80-20% 100V0CM C:FXO CER 0.01 UF +80-20% 100V0CM C:FXO CER 0.01 UF +80-20% 100V0CW C:FXO ELECT 33 UF 10% 10V0CM	56289 56289 56289 56289 28480	C023Fi01F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H 0180-0229	
C26 C27 C28 C29 C30	0160-2055 0160-2055 0160-2055 0160-2055 0160-2055		C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100V0CW	56 289 56 289 56 289 56 289 56 289	C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H C023F101F103ZS22-C0H	
C31 C32 C33 C34 CR1	0160-2055 0160-2055 0180-0229 0180-0229		C:FX0 CER 0.01 UF +80-20% 100V0CW C:FX0 CER 0.01 UF +80-20% 100VDCW C:FXD ELECT 33 UF 10% 10V0CW C:FX0 ELECT 33 UF 10% 10V0CW THRU	56289 56289 28480 28480	C023F101F103ZS22-CDH C023F101F103ZS22-COH 0180-0229 0180-0229	
CR140 P1 TBI U1 U2	1990-0325 1251-3090 0360-1735 1810-0124 1820-0742	14 1 1 18 18	OIOOE:VISIBLE LIGHT EMITTER CONNECTOR:R & P 50 MALE CONTACT BARRIER BLOCK:4 TERMINALS 6-32 SCREW RESISTOR ARRAY:B X 200 OHM 2% 1-3/4W IC:TTL OUAL 4-BII LATCH	28480 66346 98410 28480 07263	1990-0325 3433-2002 45004-3515 1810-0124 U6N930859X	
U3 U4 U5 U6 U7	1810-0124 1820-0742 1810-0124 1820-0742 1810-0124		RESISTOR ARRAY:8 X 200 0HM 2% 1-3/4W IC:TTL QUAL 4-8IT LATCH RESISTOR ARRAY:8 X 200 0HM 2% 1-3/4W IC:TTL QUAL 4-BIT LATCH RESISTOR ARRAY:8 X 200 0HM 2% 1-3/4W	28480 07263 28480 07263 28480	1810-0124 U6N930859X 1810-0124 U6N930859X 1810-0124	
U8 U9 U10 U11 U12	1820-0742 1810-0037 1820-0424 1820-0535 1823-0535	4 1 9	IC:TTL OUAL 4-8IT LATCH RESISTOR ARRAY:1K OHM 2% 1W EACH IC:TTL HS HEX INVERTER 1C:TTL OUAL PERI-2-INPT AND ORIVER IC:TTL OUAL PERI-2-INPT AND ORIVER	07263 28480 04713 01295 01295	U6N930859X 1810-0037 SN74H04N SN75451P SN75451P	
U13 U14 U15 U16 U17	1820-0294 1820-0535 1820-0535 1820-0535 1820-0535	2	IC:TTL 8-8IT SER-IN PAR OUT SHIFT REG IC:TTL OUAL PERI.2-INPT AND DRIVER IC:TTL OUAL PERI.2-INPT AND ORIVER IC:TTL OUAL PERI.2-INPT AND ORIVER IC:TTL OUAL PERI.2-INPT AND ORIVER	12040 01295 01295 01295 01295	S0 9935 SN 75451P SN 75451P SN 75451P SN 75451P	
U18 U19 U20 U21 U22	1820-0294 1820-0535 1820-0535 1820-0373 1810-0124	1	IC:TTL 8-BIT SER-IN PAR OUT SHIFT REG IC:TTL OUAL PERI-2-INPT AND ORIVER IC:TTL OUAL PERI-2-INPT AND ORIVER IC:TTL HS OUAL 4-INPT NAND GREE RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4H	12040 01295 01295 01295 28480	S09935 SN75451P SN75451P SN75451P SN74H20N 1810-0124	
U23 U24 U25 U26 U27	1820-0742 1810-0124 1820-0742 1810-0124 1820-0742		IC:TTL QUAL 4-8IT LATCH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL QUAL 4-BIT LATCH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL QUAL 4-8IT LATCH	07263 28480 07263 28480 07263	U6N930859X I810-0124 U6N930859X I810-0124 U6N930859X	
U28 U29 U30 U31 U32	1810-0124 1820-0742 1820-0608 1810-0124 1820-0742	1	RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL OUAL 4-8IT LATCH IC:TTL 1 OF DECODER W/ENABLE RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL OUAL 4-8IT LATCH	28480 07263 04713 28480 07263	1810-0124 U6N930859X MC4006P 1810-0124 U6N930859X	
U33 U34 U35 U36 U37	1810-0124 1820-0742 1810-0124 1820-0742 1810-0124		RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL OUAL 4-BIT LATCH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL OUAL 4-BIT LATCH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W	28 4 8 0 07 2 6 3 28 4 8 0 07 2 6 3 28 4 8 0	1810-0124 U6N930859X 1810-0124 U6N930859X 1810-0124	

Table 2-64. Display PCA, Replaceable Parts (Continued)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
U38 U39 U40 U41 U42	1820-0742 1820-0535 1810-0037 1810-0124 1823-0742		IC:TTL QUAL 4-8IT LATCH IC:TTL DUAL PERI.2-INPT AND ORIVER RESISTUR ARRAY:1K OHM 2% 1W EACH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL QUAL 4-8IT LATCH	07263 01295 28480 28480 07263	U6N930859X SN75451P 1810-0037 1810-0124 U6N930859X
U43 U44 U45 U46 U47	1810-0124 1820-0742 1820-0742 1820-0742 1810-0124		RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W IC:TTL OUAL 4-8IT LATCH IC:TTL OUAL 4-8IT LATCH IC:TTL OUAL 4-8IT LATCH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W	28480 07263 07263 07263 28480	1810-0124 U6N930859X U6N930859X U6N930859X 1810-0124
U48 U49 U50 U51 U52	1820-0742 1810-0037 1810-0124 1810-0124 1820-0742		IC:TTL OUAL 4-8IT LATCH RESISTOR ARRAY:1K OHM 2% 1W EACH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W 1C:TTL DUAL 4-8IT LATCH	07263 28480 28480 28480 28480 07263	U6N930859X 1810-0037 1810-0124 1810-0124 U6N930859X
U53 U54	1810-0037 1813-0124		RESISTOR ARRAY:IK OHM 2% IW EACH RESISTOR ARRAY:8 X 200 OHM 2% 1-3/4W	28480 28480	1810-0037 1810-0124

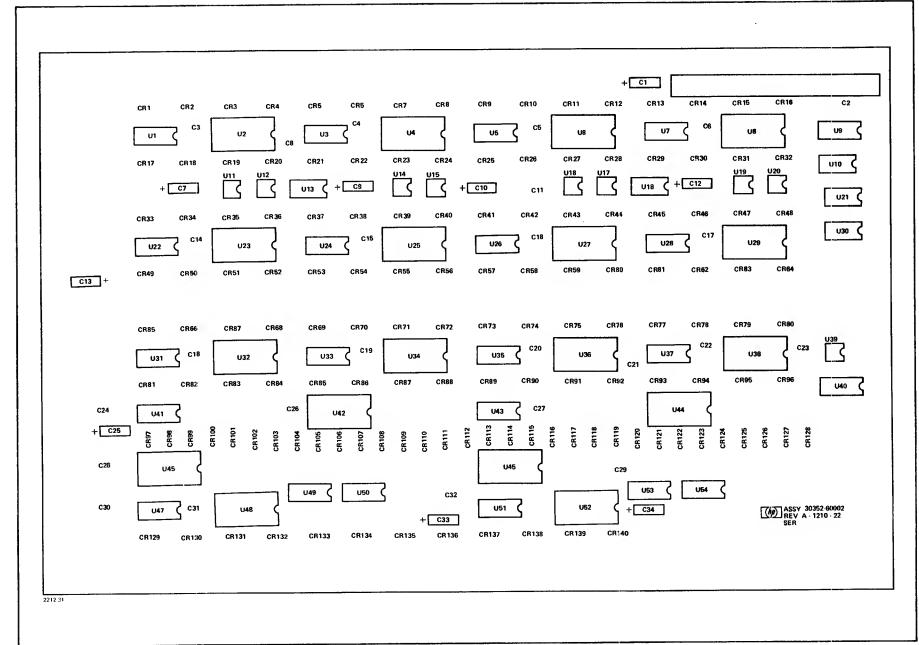


Figure 2-63. Display PCA, Parts Location Diagram

Table 2-65. Reference Designations and Abbreviations

		REFE	RENCE DESIGNATIONS		
A B BT C CB CR DS E F L J	= assembly = motor, synchro = battery = capacitor = circuit breaker = diode = delay line = indicator = Misc electrical parts = fuse = filter	K L M P Q R RT S T	= relay = inductor = meter = plug connector = semiconductor device other than diode or integrated circuit = resistor = thermistor = switch	TB TP U V VR W X Y	= terminal board = test point = integrated circuit, non- repairable assembly = vacuum tube, photocell, etc. = voltage regulator = jumper wire = socket = crystal = tuned cavity, network
J	= receptacle connector	<u> </u>	= transformer ABBREVIATIONS	<u>Ш</u>	
		1		1	
A ac Ag Al ar adj	= amperes = alternating current = silver = aluminum = as required = adjust	gra grn H Hg hr	= gray = green = henries = mercury = hour(s)	PCA PWB phh pk p-p pt	= printed-circuit assembly = printed-wiring board = phillips head = peak = peak = peak-to-peak = point
assy b	= assembly = base	Hz hdw	= hertz = hardware	PNP pwv	= peak inverse voltage = positive-negative-positive = peak working voltage
bp bpi blk blu	= base = bandpass = bits per inch = black = blue	hex ID IF	hexagon, hexagonalinside diameterintermediate frequency	porc posn pozi	= porcelain = position(s) = pozidrive
brn brs Btu Be Cu	= brown = brass = British thermal unit = beryllium copper	in, I/O int incl	= inch, inches = input/output = internal = include(s)	rf rdh rms rwv	 radio frequency round head root-mean-square reverse working voltage
cpi coll cw	characters per inchcollectorclockwise	insul impgrg incand ips	 insulation, insulated impregnated incandescent inches per second 	rect r/min RTL	 rectifier revolutions per minute resistor-transistor logic
cer com crt	 counterclockwise ceramic common cathode-ray tube 	k lp	= kilo (10 ³), kilohm = low pass	s SB, TT	= second = slow blow
CTL cath	= complementary-transistor logic = cathode	m M My	= milli (10 ⁻³) = mega (10 ⁶), megohm = Mylar	Se Si scr	= selenium = silicon = silicon controlled rectifier
Cd pl comp conn	= cadmium plate = composition = connector	mfr mom mtg	= manufacturer = momentary = mounting	sst stl spcl	= stainless steel = steel = special
dc	= complete = direct current	misc	= miscellaneous = metal oxide = miniature	spdt spst	= single-pole, double-throw = single-pole, single-throw
dr DTL depc dpdt dpst	 = drive = diode-transistor logic = deposited carbon = double-pole, double-throw = double-pole, single-throw 	n nc Ne	= nano (10 ⁻⁹) = normally closed or no connection = neon	Ta td Ti tgl	= tantalum = time delay = titanium = toggle
em ECL	= emitter = emitter-coupled logic	no. n.o.	= number = normally open = nickel plated	thd tol TTL	= toggle = thread = tolerance = transistor transistor logic
ext encap elctit	= external = encapsulated = electrolytic	NPN NPO NSR	= negative-positive-negative = negative-positive zero (zero temperature coefficient) = not separately replaceable	υ(μ)	= micro (10 ⁻⁶)
F FF flh	= farads = flip-flop = flat head	NRFR	= not recommended for field replacement	V var vio	= volt(s) = variable = violet
flm fxd filh	= film = fixed = fillister head	OD OBD orn	= outside diameter = order by description = orange = out book	Vdcw	= direct current working volts = watts
G Ge gl	= giga (10 ⁹) = germanium = glass	ovh oxd	= oval head = oxide = pico (10 ⁻¹²)	ww wht WIV	wirewoundwhiteworking inverse voltage
gnd	= ground(ed)	PC	= printed circuit	yel	= yellow

3000 Replaceable Parts

Table 2-66. Code List of Manufacturers

	H4-2, and the latest supplements.	ory Code for it	y Code for Manufacturers Cataloging Handbooks H4-1 and				
Code No.	Manufacturer Address	Code No.	Manufacturer Address				
00853	Sangamo Electric Co., Pickens Division Pickens, S.C	66346	Minnesota Mining & Mfg. Co. Revere Mincom Div St. Paul, Minn.				
01121	Allen Bradley Co Milwaukee, Wis	72136	Electro Motive Mfg. Co., Inc Willimantic, Conn.				
01295	Texas Instruments, Inc. Transistor Products Div. Dallas, Texas	72982 75382	Erie Technological Products, Inc Erie, Pa. Kulka Electric Corp Mt. Vernon, N. Y				
02735	Radio Corp. of America, Semi- conductor and Materials Division	79727	Continental-Wirt Electronics Corp. Philadelphia, Pa. Electronic Industries Association, Standard tube or semi-conductor device.				
04713	Motorola Inc. Semiconductor Prod. Div Phoenix, Arizona		any manufacturer				
09353	C & K Components Inc Newton, Mass	11 81040	Controls Co. of America Control S vitch Division Foleroft, Pa.				
12040	National Semiconductor Corp Danbury, Conn.	11	Arco Electronics Inc Great Neck, N.Y.				
18324	Signetics Corp Sunnyvale, Cal	11 03	Radio Materials Co Chicago, III.				
28480	Hewlett-Packard Co Palo Alto, Cal	[] 00	Augat Inc Attleboro, Mass.				
56289	Sprague Electric Co North Adams, Mass	11 0.000	Etc Inc Cleveland, Ohio				

CERTIFICATION

The Hewlett-Packard Company certifies that this instrument was thoroughly tested and inspected and found to meet its published specifications when it was shipped from the factory. The Hewlett-Packard Company further certifies that its calibration measurements are traceable to the U.S. National Bureau of Standards to the extent allowed by the Bureau's calibration facility.

